CDP-C545/C745

SERVICE MANUAL

US Model
Canadian Model
AEP Model
CDP-C545/C745
E Model
Australian Model
CDP-C545

Photo : CDP-C745

Model Name Using Similer Mechanism	CDP-C435/C535	
Base Unit Type	C545	BU-5BD10B (for KSS-240A) BU-5BD10C (for KSS-390A)
	C745	BU-5BD10B (for KSS-240A) BU-5BD11C (for KSS-390A)
Optical Pick-up Type	KSS-240A or KSS-390A	

SPECIFICATIONS

Compact Disc Player

System	Compact disc digital audio system
Laser	Semiconductor laser
Wavelength	780 – 790 nm
Frequency response	CDP-C745 2 Hz – 20 kHz (± 0.3 dB) CDP-C545 2 Hz – 20 kHz (± 0.5 dB)
Signal to noise ratio	More than 107 dB
Dynamic range	More than 98 dB
Harmonic distortion	CDP-C745 Less than 0.0027% CDP-C545 Less than 0.0030%
Channel separation	More than 100 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms, non DSP mode.) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks) (CDP-C545 for Continental Europe and CDP-C745)	Output level max. 2 V (at 50 kilohms, non DSP mode.) Load impedance over 50 kilohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level –18 dBm
PHONES (stereo phone jack)	Output level max. CDP-C745 15mW CDP-C545 10mW Load impedance 32 ohms

General

Power requirements	Model for the USA,Canada 120V AC,60Hz Model for Continental Europe 220-230V AC,50/60Hz Model for Australia 240V AC,50/60Hz Model for other countries 110-120or220-240V AC, adjustadle,50/60Hz
Power consumption	15 W
Dimensions (approx.)	430 × 125 × 385 mm (w/h/d) (17 × 5 × 15 1/4 inches) Including projecting parts and controls
Mass (approx.)	5.7 kg (12 lbs 10 oz), net
Remote Commander	RM-D745(CDP-C745) RM-D645(CDP-C545:AEP) RM-D545(CDP-C545:US,CND,E,AUS)
Remote control system	Infrared control
Power requirements	3 V DC with two size AA batteries (IEC designation R6)
Dimensions (approx.)	62 × 20 × 175 mm (w/h/d) (2 1/2 × 13/16 × 7 inches)
Mass (approx.)	131 g (4.7 oz) including batteries

Design and specifications are subject to change without notice.

COMPACT DISC PLAYER

SONY®

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION	; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL	; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO!	; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSATEILYLLE.
VARNING	; LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD.
ADVARSEL	; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

This caution label is located inside the unit.

For the Customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

This apparatus complies with the Class B limits for radio noise emissisons set out in Radio Interference Regulations.

For Customers in Australia

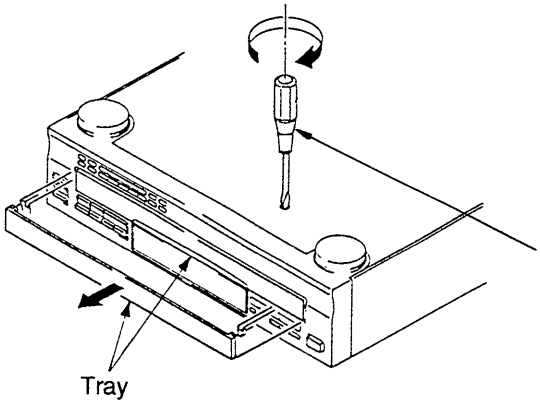
The following caution label is located inside the unit.

DANGER INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.	DANGER RADIATION DE LESER INVISIBLE LORS D'OUVERTURE AVEC L'ENCLENCHEMENT DE SECURITE ANNULE. EVITER L'EXPOSITION DIRECTE AU RAYON. 4-906-403-01

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



Insert a tapering driver into the aperture of the unit bottom, and turn in the direction of arrow (to OUT direction).

* To close the disc tray, turn the driver in the reverse direction (to IN direction).

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When moving the player

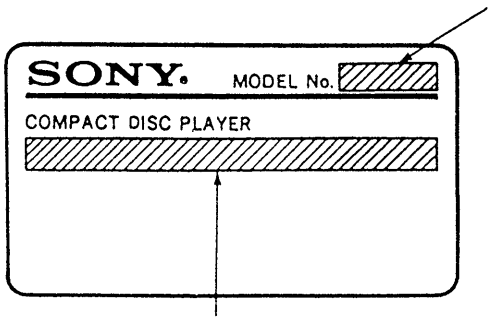
Before moving the player, follow the procedure below to return the internal mechanisms back to their original position.

1 Remove all of the discs from the disc tray.
2 Press the ⏏ OPEN/CLOSE button to close the disc tray. Make sure that the "– NO DISC –" indication lights up in the front panel display.
3 Wait for 10 seconds, then press the POWER button to turn the player off.

MODEL IDENTIFICATION

— Specification Label —

CDP-C545
CDP-C745



US, Canadian model : AC: 120V 60Hz 15W
AEP model : AC: 220–230V ~50/60Hz 15W
E model : AC: 110–120V, 220–240V ~50/60Hz 15W
Australian model : AC: 240V ~50/60Hz

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repain parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

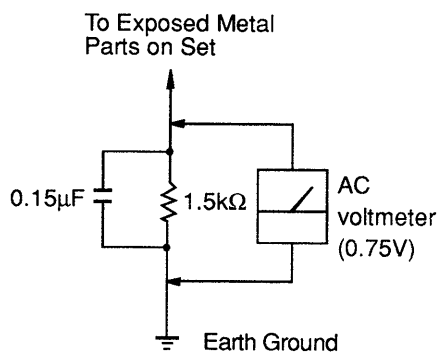


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

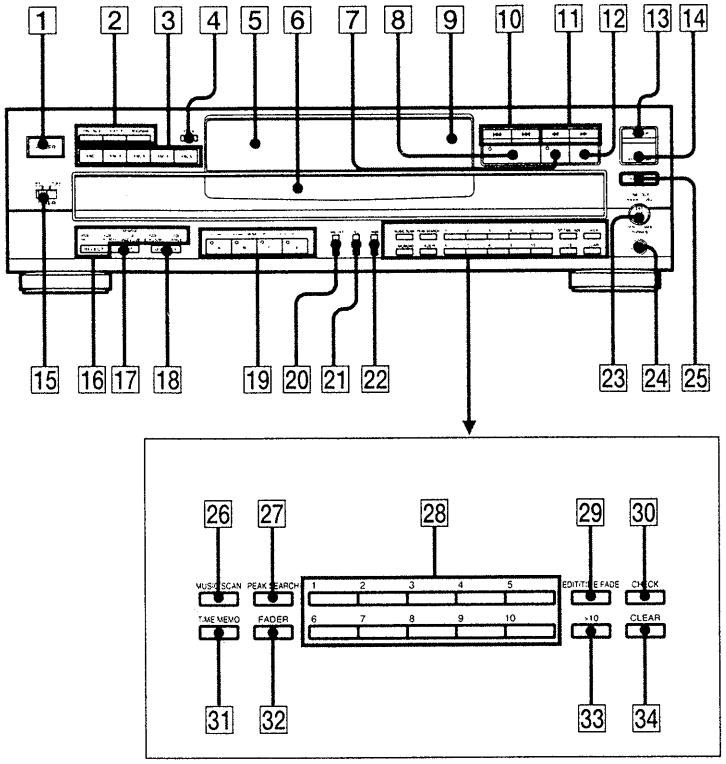
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

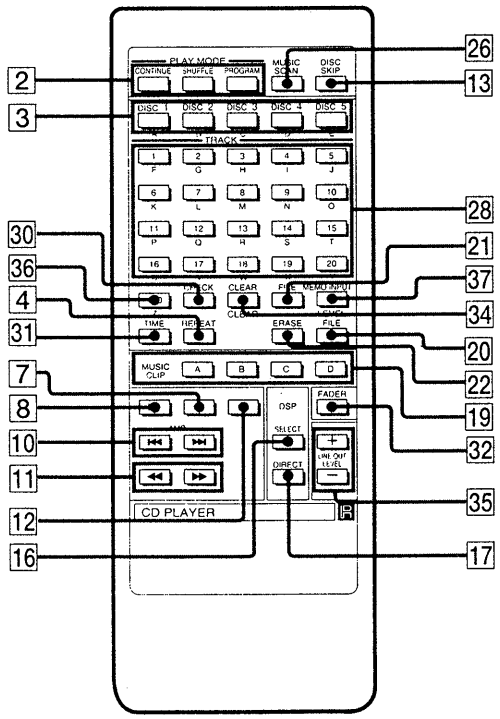
SECTION 1
GENERAL

This section is extracted from instruction manual.

A



B



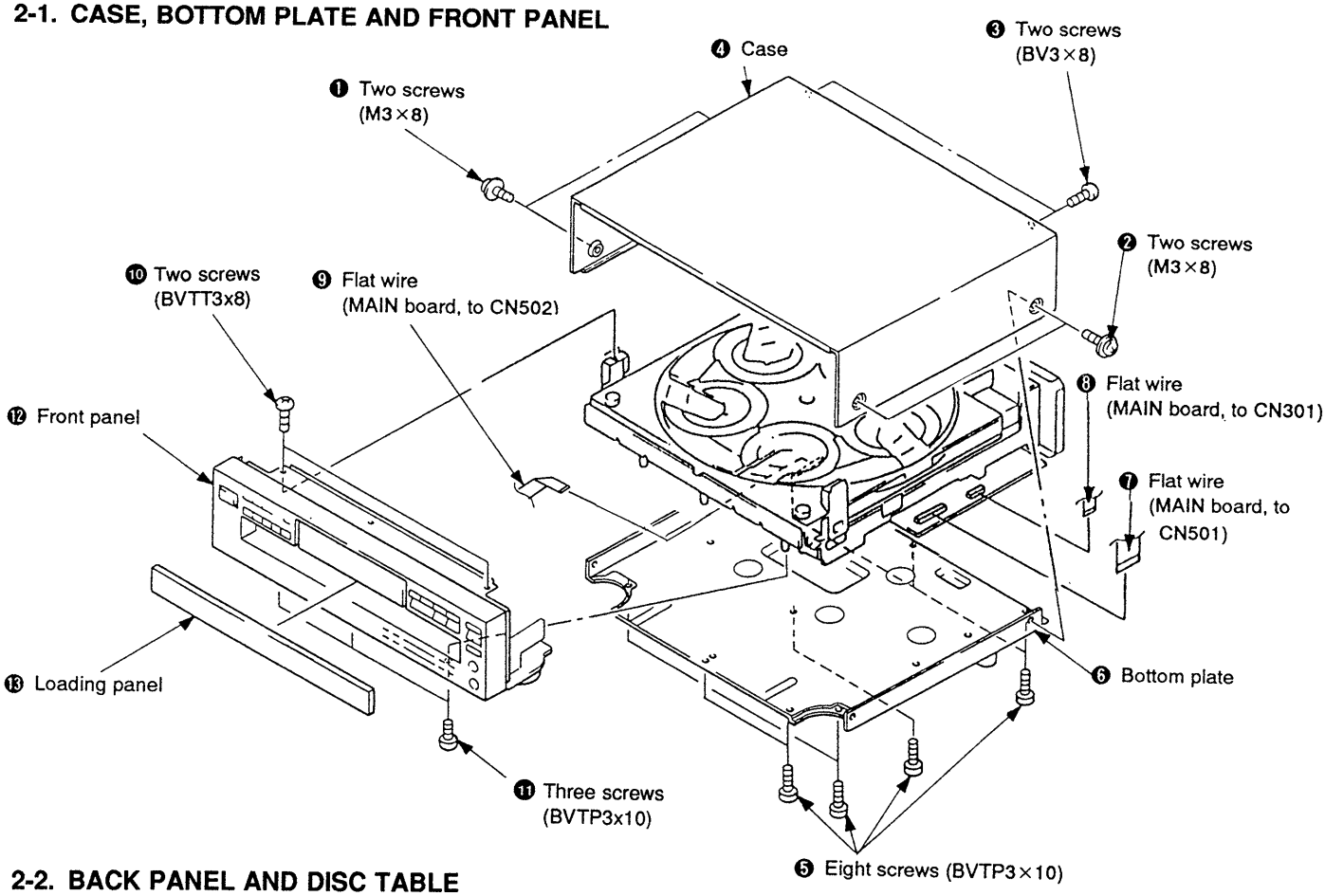
See the pages indicated in ( ) for details.

1 POWER switch (8)
2 PLAY MODE buttons
CONTINUE button (8)
SHUFFLE button (16)
PROGRAM button (17)
3 DISC 1-5 buttons (8)
4 REPEAT button (22)
5 Display window (8)
6 Disc tray (8)
7 ❚❚ (pause) button (and indicator) (9)
8 ▷ (play) button (and indicator) (8)
9 Remote sensor
10 ⏮/⏭ (AMS*) buttons (11)
11 ◀◀/▶▶ (manual search) buttons (11)
12 ■ (stop) button (9)
13 DISC SKIP button (8)
14 ⏏ OPEN/CLOSE button (8)
15 TIMER switch (38)
16 DSP SELECT button (and indicators) (CDP-C745 only)(15)
17 DIRECT button (CDP-C745 only)(15)
18 DSP FILE button (CDP-C745 only)(37)
19 MUSIC CLIP buttons (and indicators) (30)
20 LEVEL FILE button (CDP-C745 only) (36)
21 FILE button (33)
22 ERASE button (33)
23 LINE OUT/PHONE LEVEL control (CDP-C745)
PHONE LEVEL control (CDP-C545) (5)
24 PHONES jack (9)
25 EX-CHANGE button (12)
26 MUSIC SCAN button (21)
27 PEAK SEARCH button (27)
28 Numeric (Numeric/letter**) buttons (11)
29 EDIT/TIME FADE button (23)
30 CHECK button (20)
31 TIME/MEMO (TIME) button (10)
32 FADER button (13)
33 >10 (over 10) button (11)
34 CLEAR button (17)
35 LINE OUT LEVEL +/– buttons (RM-D745 only) (5)
36 >20 (over 20) button (11)
37 MEMO INPUT button (32)

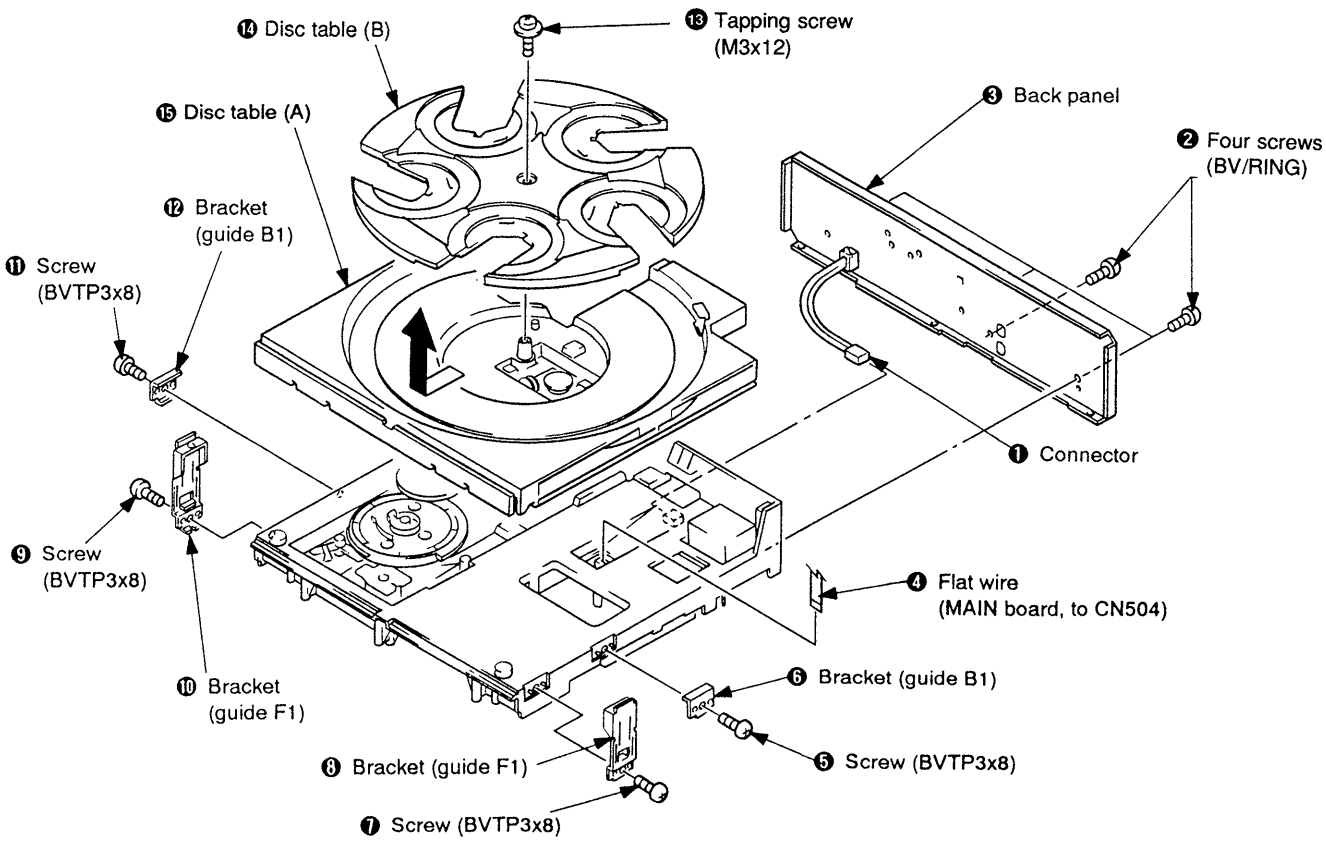
* AMS is the abbreviation for Automatic Music Sensor.
** Buttons with orange letters (A, B, ...) on the remote commander are for writing a disc memo (page 32).

SECTION 2
DISASSEMBLY

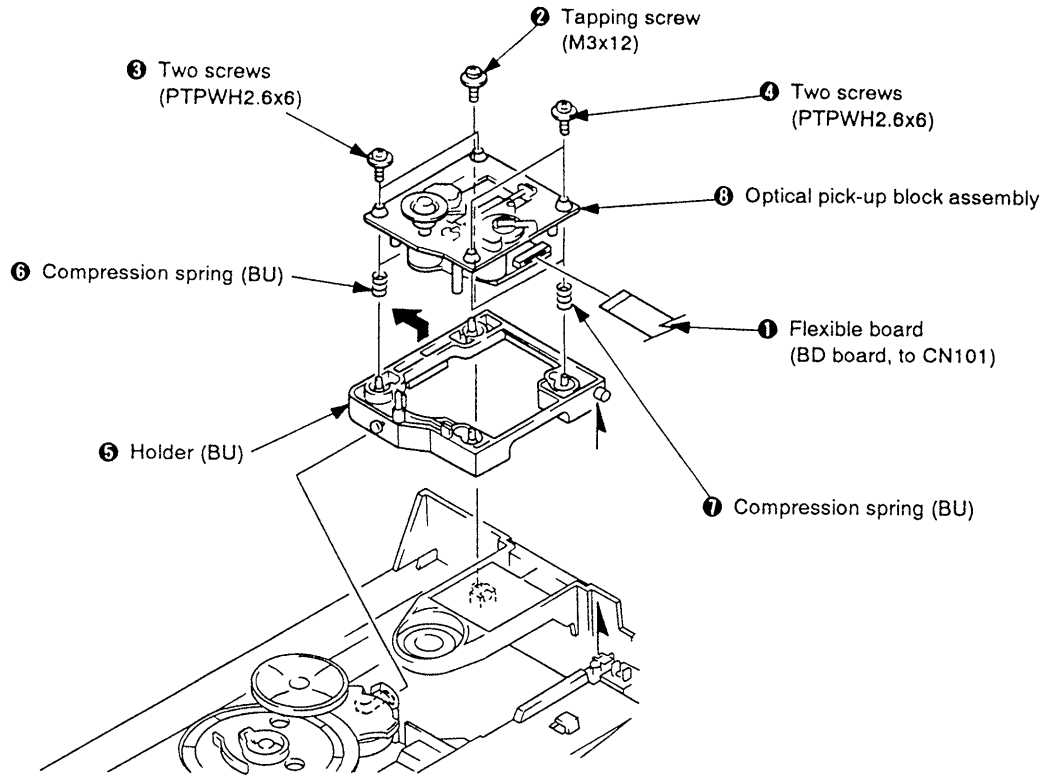
2-1. CASE, BOTTOM PLATE AND FRONT PANEL


❹ Case
❸ Two screws (BV3×8)
❶ Two screws (M3×8)
❷ Two screws (M3×8)
❿ Two screws (BVTT3x8)
❾ Flat wire (MAIN board, to CN502)
❽ Flat wire (MAIN board, to CN301)
⓬ Front panel
❼ Flat wire (MAIN board, to CN501)
⓭ Loading panel
❻ Bottom plate
⓫ Three screws (BVTP3x10)
❺ Eight screws (BVTP3×10)

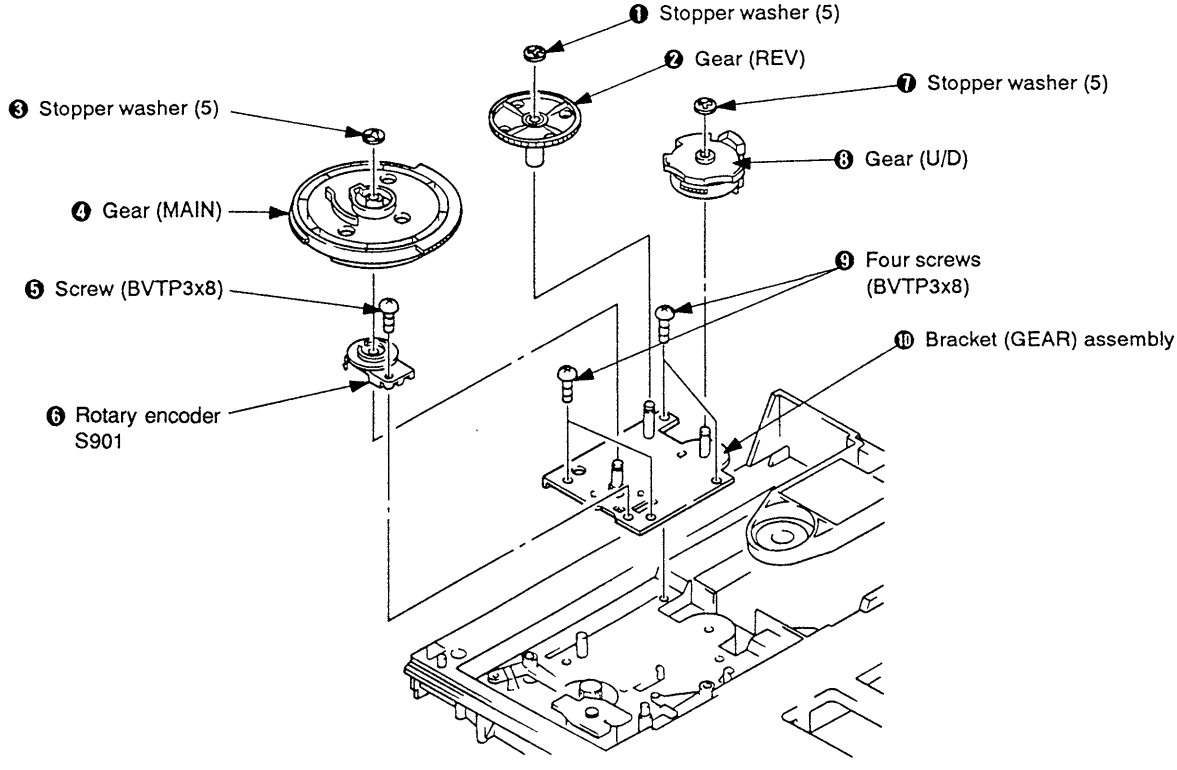
2-2. BACK PANEL AND DISC TABLE



2-3. OPTICAL PICK-UP BLOCK

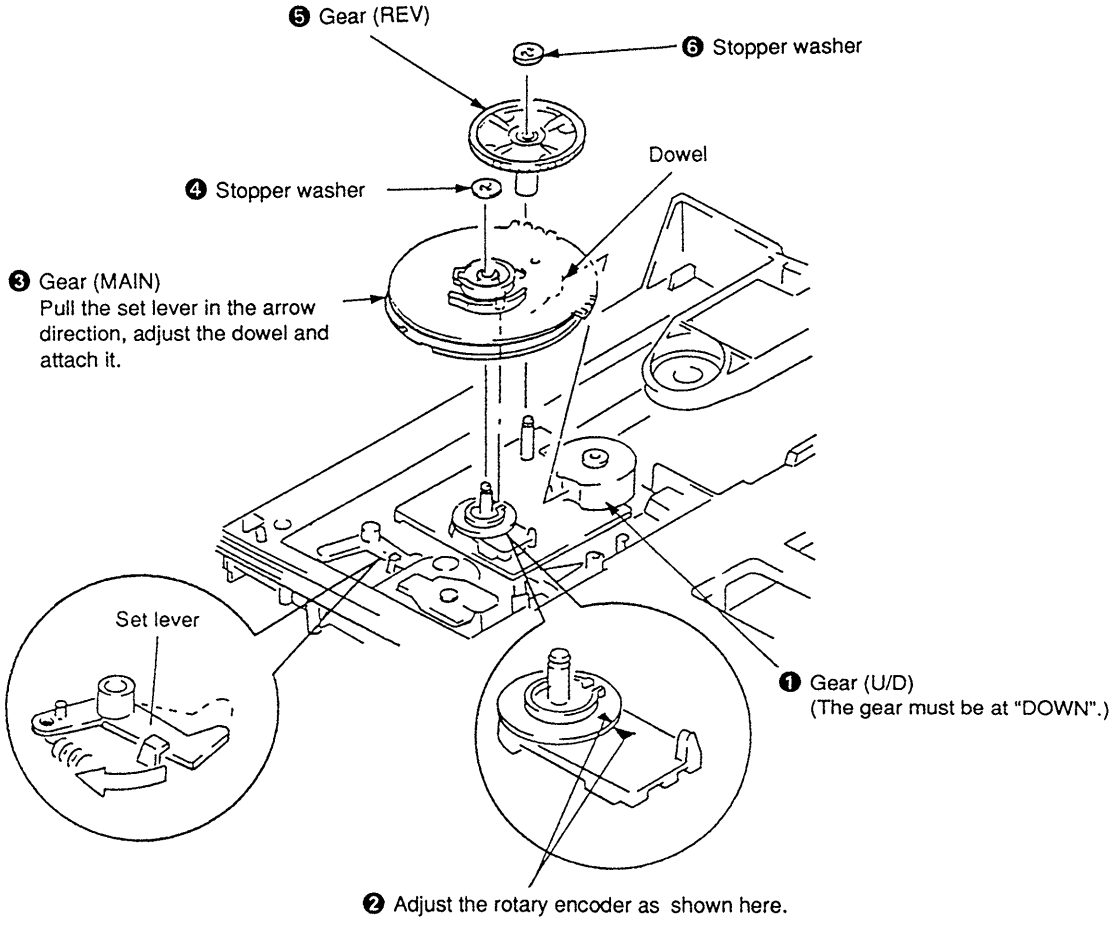

❷ Tapping screw (M3x12)
❸ Two screws (PTPWH2.6x6)
❹ Two screws (PTPWH2.6x6)
❽ Optical pick-up block assembly
❻ Compression spring (BU)
❶ Flexible board (BD board, to CN101)
❺ Holder (BU)
❼ Compression spring (BU)

2-4. BRACKET (GEAR)



2-5. POSITIONING THE ENCODER WHEN ATTACHING THE GEAR (MAIN)

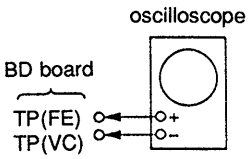
The position of the rotary encoder must be adjusted when attaching the gear (MAIN). If its position is not adjusted properly, problem may occur afterwards during operation.


❺ Gear (REV)
❻ Stopper washer
Dowel
❹ Stopper washer
❸ Gear (MAIN)
Pull the set lever in the arrow direction, adjust the dowel and attach it.
Set lever
❶ Gear (U/D)
(The gear must be at "DOWN".)
❷ Adjust the rotary encoder as shown here.

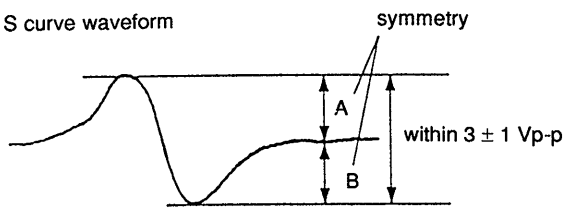
SECTION 3
ELECTRICAL BLOCK CHECING

Note :
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



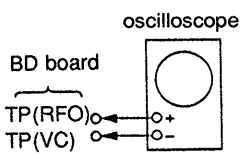
Procedure :
1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1 Vp-p.



6. After check, remove the lead wire connected in step 2.

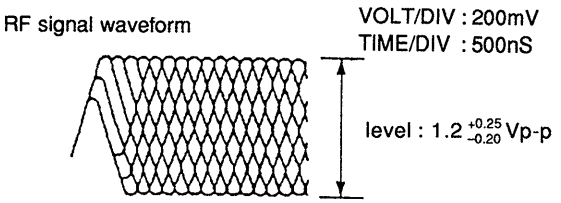
Note : • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

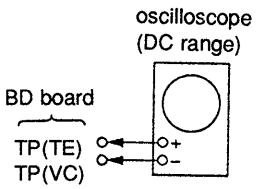


Procedure :
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

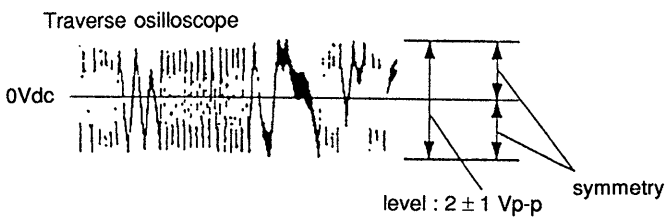
Note :
Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



E-F Balance Check



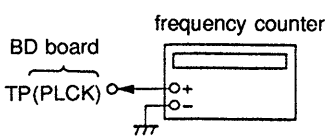
Procedure :
1. Connect test point TP (ADJ) on MAIN board to ground and TP(TEI) to TP (VC) with lead wire.
2. Connect oscillioscpe to test point TP (TE) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0Vdc, and check this level.



6. Remove the lead wire connected in step 1.

RF Free-run Frequency Check

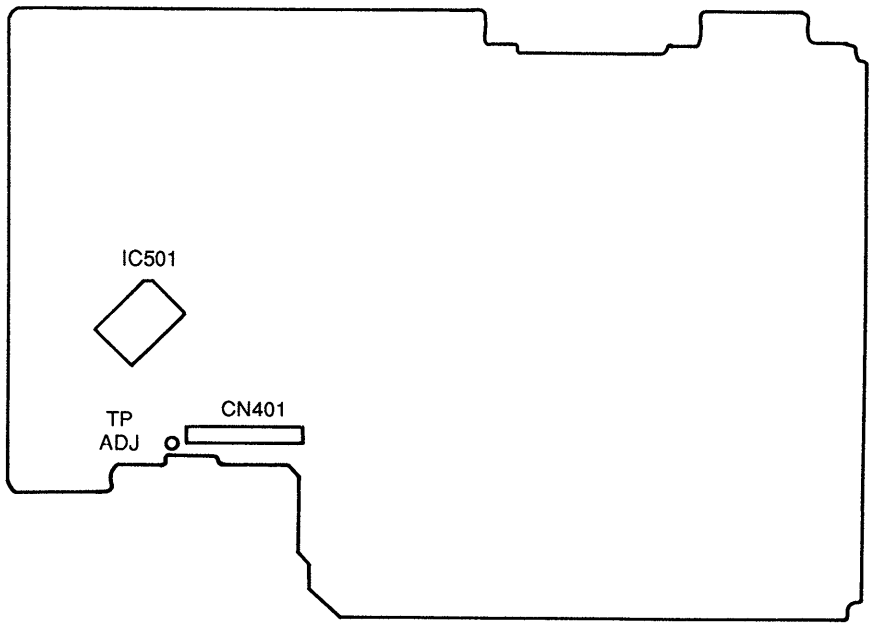
Procedure :
1. Connect frequency counter to test point (PLCK) with lead wire.



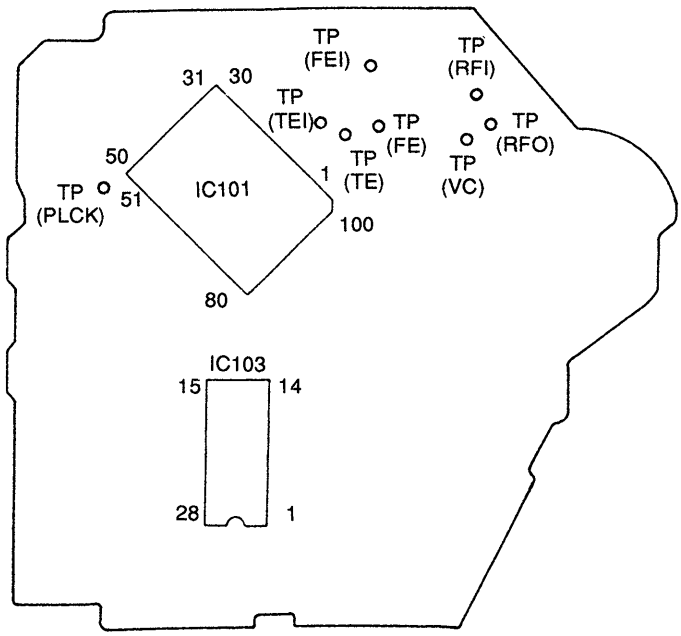
2. Turned Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Location :

[MAIN BOARD] (Component Side)

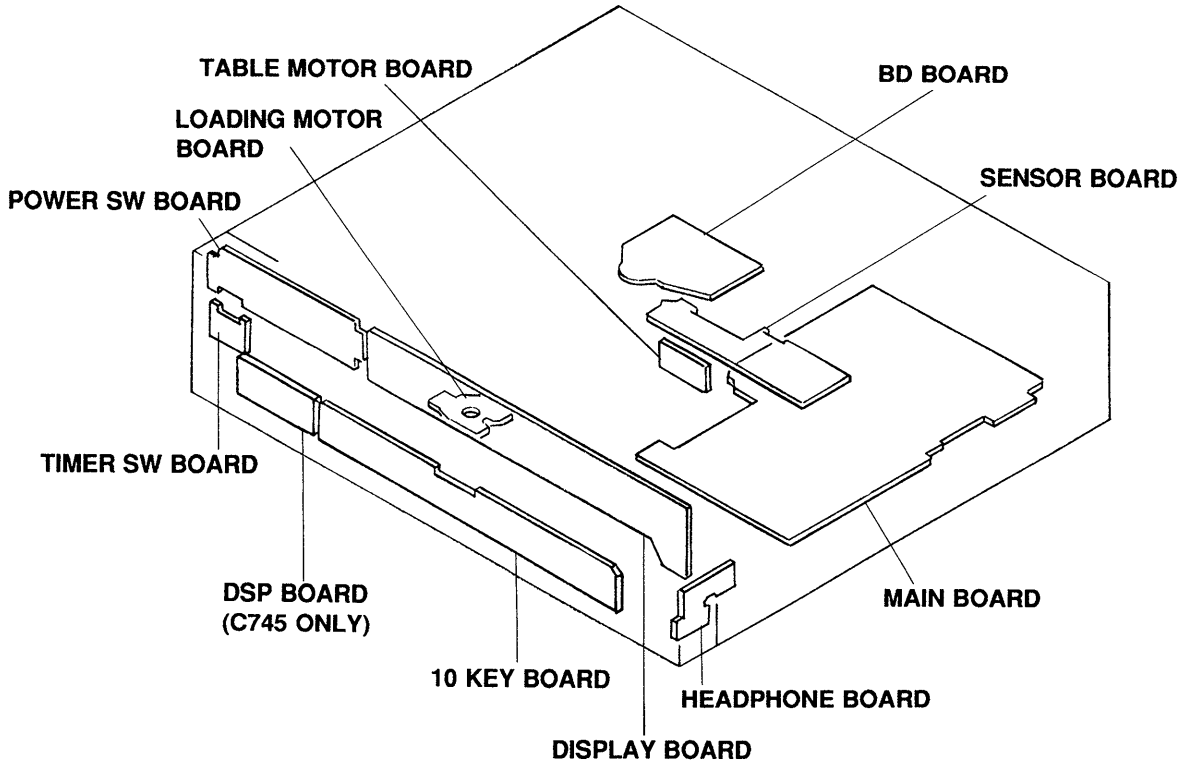


[BD BOARD] — Side A —

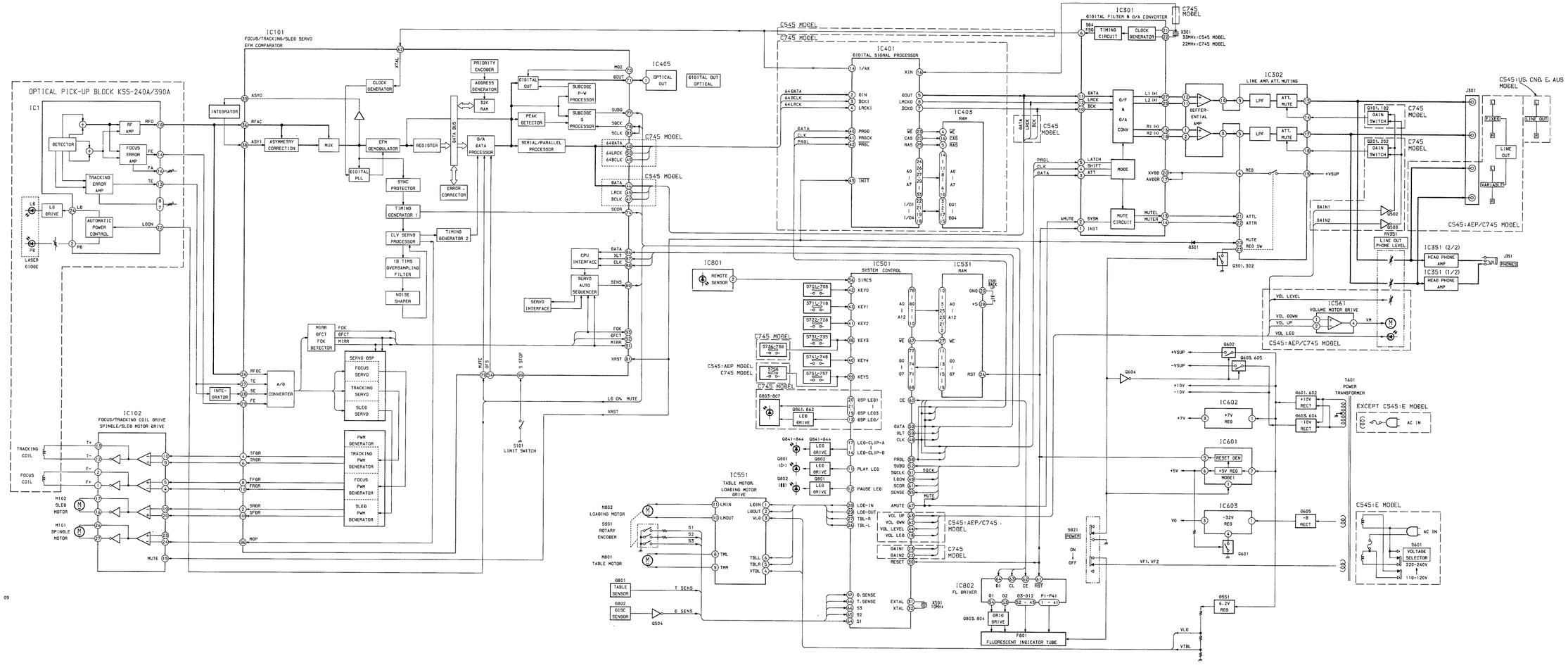


SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

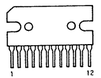


4-2. BLOCK DIAGRAM

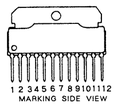


4-3. SEMICONDUCTOR LEAD LAYOUTS

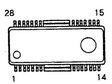
BA3963



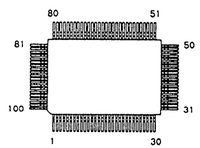
BA6191



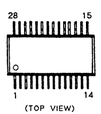
BA6297AFP



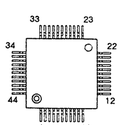
CXD2515Q



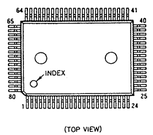
CXD2564AM
CXD2565M-1



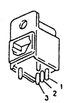
CXD8458Q



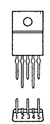
CXP84124-014Q
CXP84332-004Q



GP1F32T

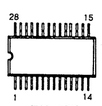


LA6500-FA

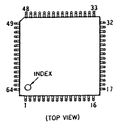


LA9216

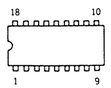
LH5160N-10L



LC75711E

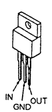


MSM51C464A-70RS



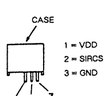
M5293L

TA7807S

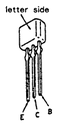


NJM4565D

GP1U52XB



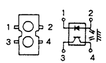
2SA1175-HFE
DTC144ES



DTA114ES
DTA144ES
DTC144ES
2SC2603-EF

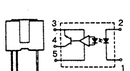
2SC2878-AB

GP2S28

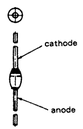


SEL2510C-D
SEL2810A-C
SEL2810A-D

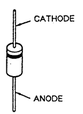
RPI-1391



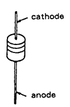
RD6.2ES-B1
RD9.1ES-L



1N4148M

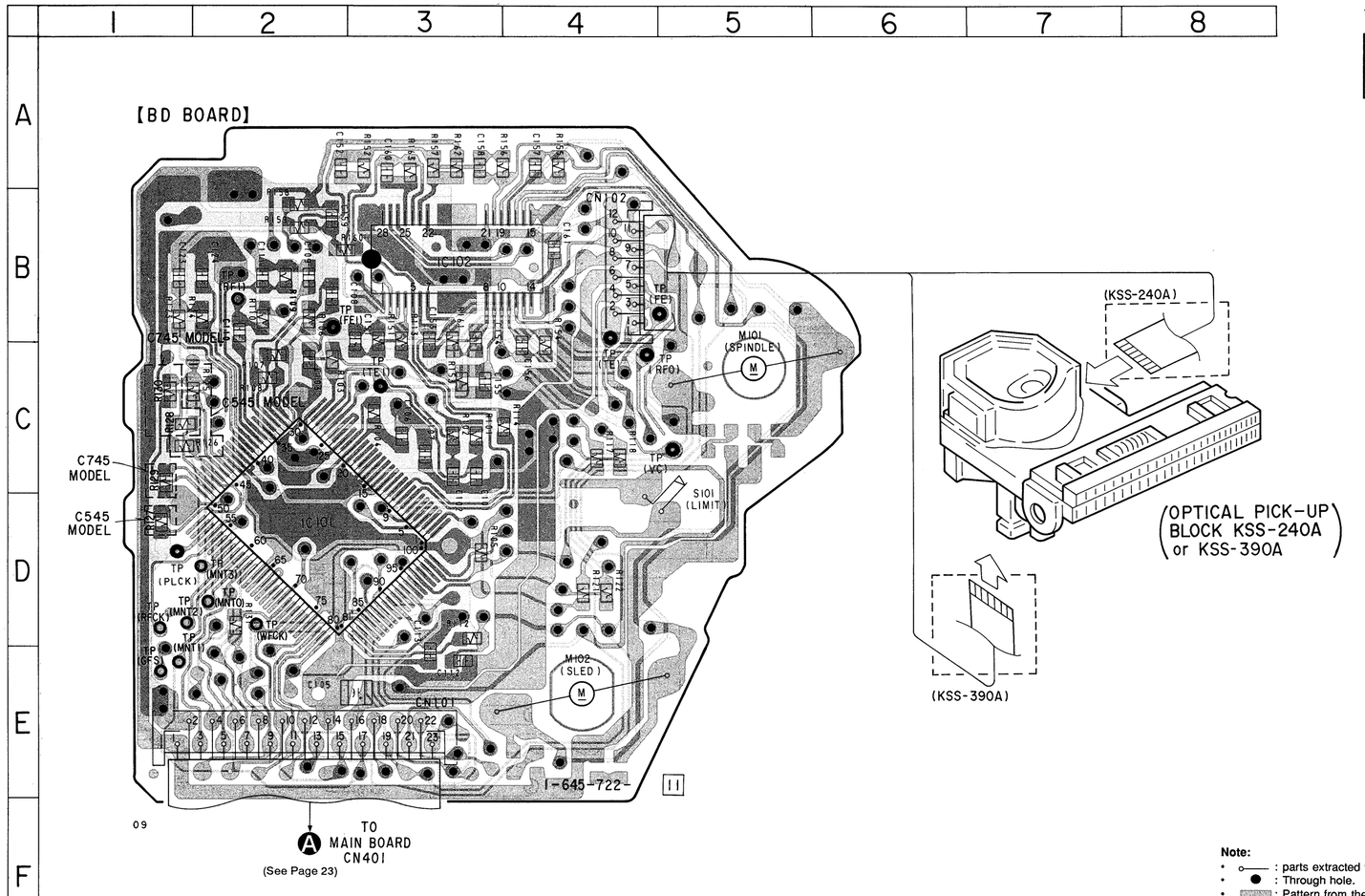


11ES2



4-4. PRINTED WIRING BOARD — BD SECTION —

• See page 10 for Circuit Boards Location.



• **Semiconductor Location**

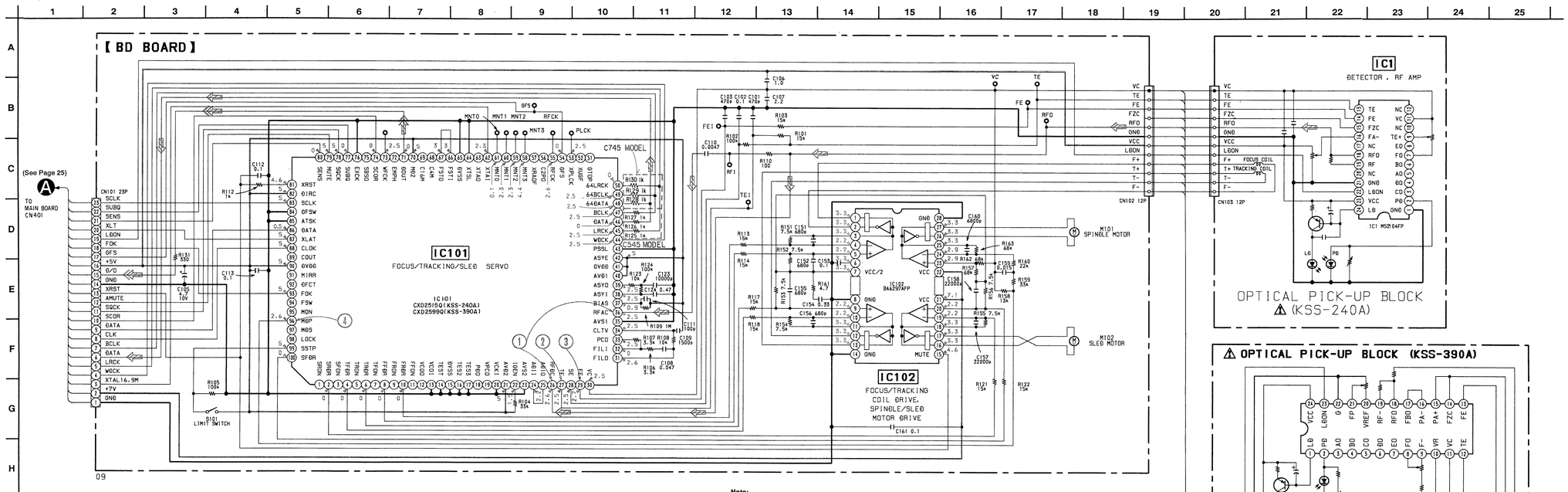
Ref. No.	Location
IC101	D-2
IC102	B-3

Note:

- ○——○ : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enable seeing.
- ▒▒ : Pattern of the rear side.

4-5. SCHEMATIC DIAGRAM — BD SECTION —

• See page 36 for IC Pin Functions. (IC101)



Note:

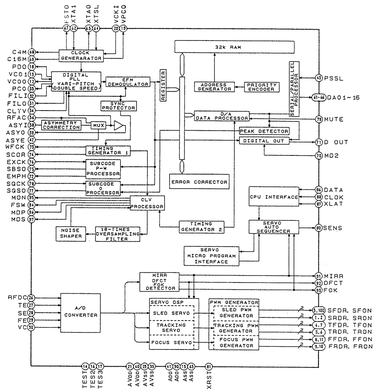
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

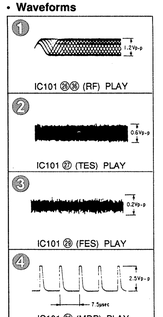
- ═══: B+ Line
- ═══: B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : CD
  - ⇨ : digital out

• IC Block Diagram

IC101 CXD2515Q/CXD2599Q



• Waveforms



4-6. PRINTED WIRING BOARDS — MAIN SECTION —

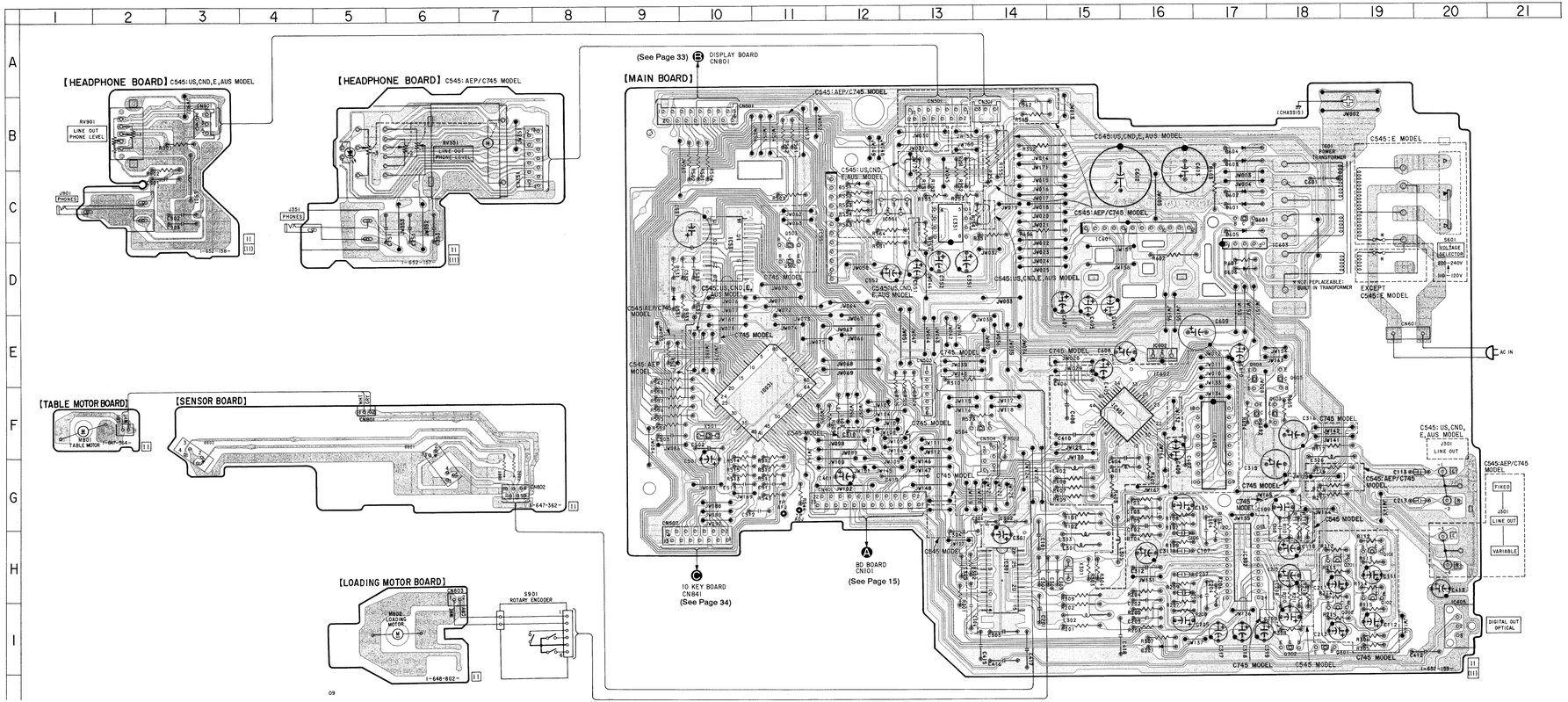
- See page 10 for Circuit Boards Location.
- See page 14 for Semiconductor Lead Layouts.

- **Semiconductor Location**

Ref. No.	Location
D301	I-16
D531	D-9
D551	C-12
D601	C-17
D602	C-17
D603	B-17
D604	B-17
D605	C-17
D606	D-17
D801	F-6
D802	F-3
IC301	H-14
IC302	H-17
IC351	C-13
IC401	F-15
IC403	F-17
IC405	I-20
IC501	F-11
IC531	D-10
IC551	C-11
IC561	C-12
IC601	D-15
IC602	E-16
IC603	D-18
Q101	H-19
Q102	I-19
Q201	H-19
Q202	I-19
Q301	I-19
Q302	I-18
Q502	D-11
Q503	C-11
Q504	F-13
Q601	C-17
Q602	F-17
Q603	F-18
Q604	E-17
Q605	E-18

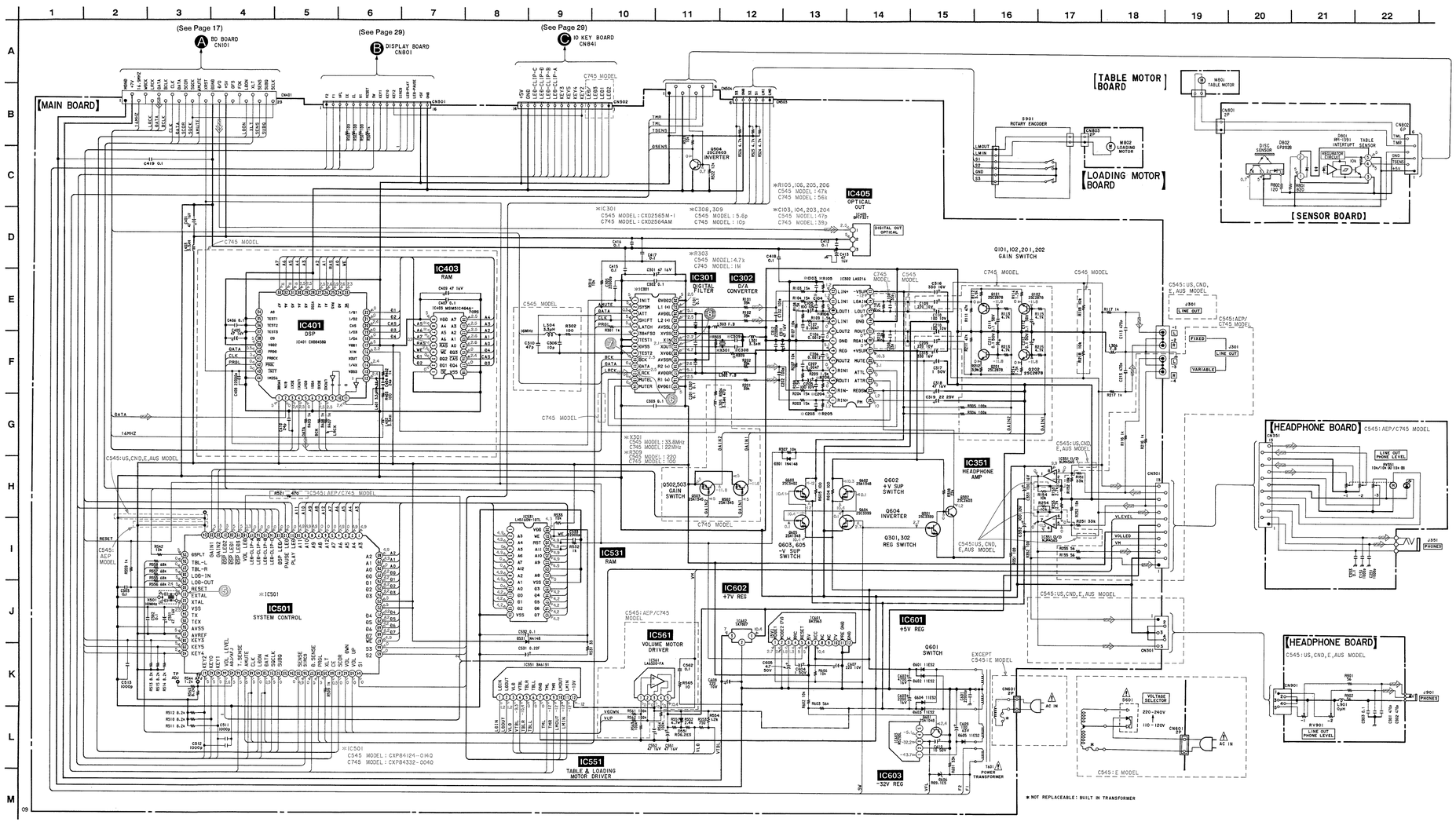
Note:

- ○—— : parts extracted from the component side.
- ▨▨▨ : Pattern from the side which enable seeing.
- CND : Canadian model.
  AUS : Australian model.

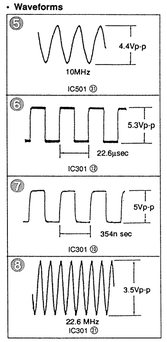


4-7. SCHEMATIC DIAGRAM — MAIN SECTION —

• See page 39 for IC Pin Functions. (IC501)



• Waveforms



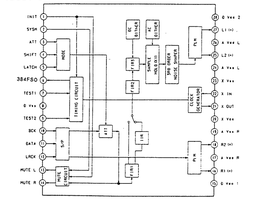
Note:
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- □ : panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

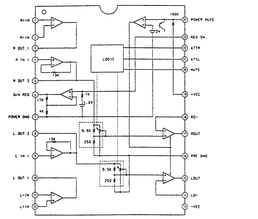
- ▭▭▭ : B+ Line
- ▭▭▭ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance 10MΩ) Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ▭▭▷ : CD
  - ▭▭▷▷ : digital out
- CND : Canadian model.
  AUS : Australian model.

• IC Block Diagrams

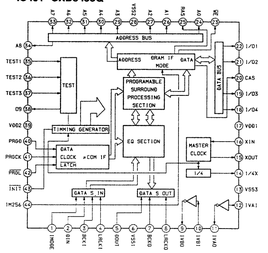
IC301 CXD2564AM / CXD2565M-1



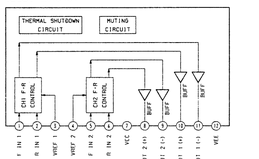
IC302 LA9216



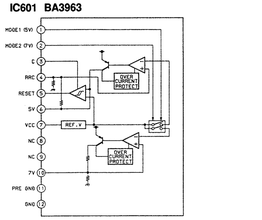
IC401 CXD8458Q



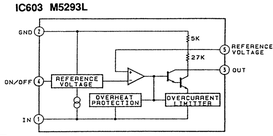
IC551 BA6191



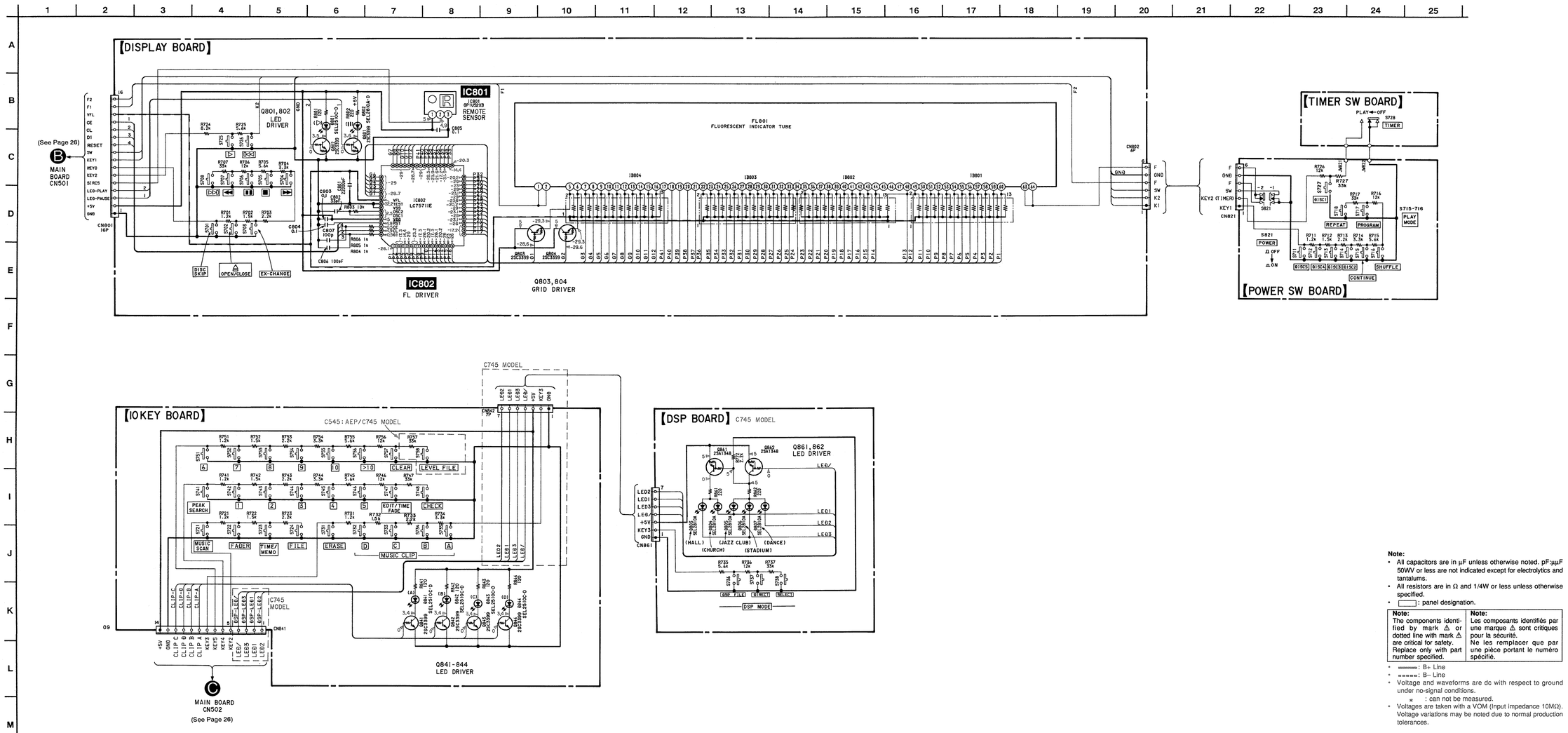
IC601 BA3963



IC603 M5293L



4-8. SCHEMATIC DIAGRAM — PANEL SECTION —



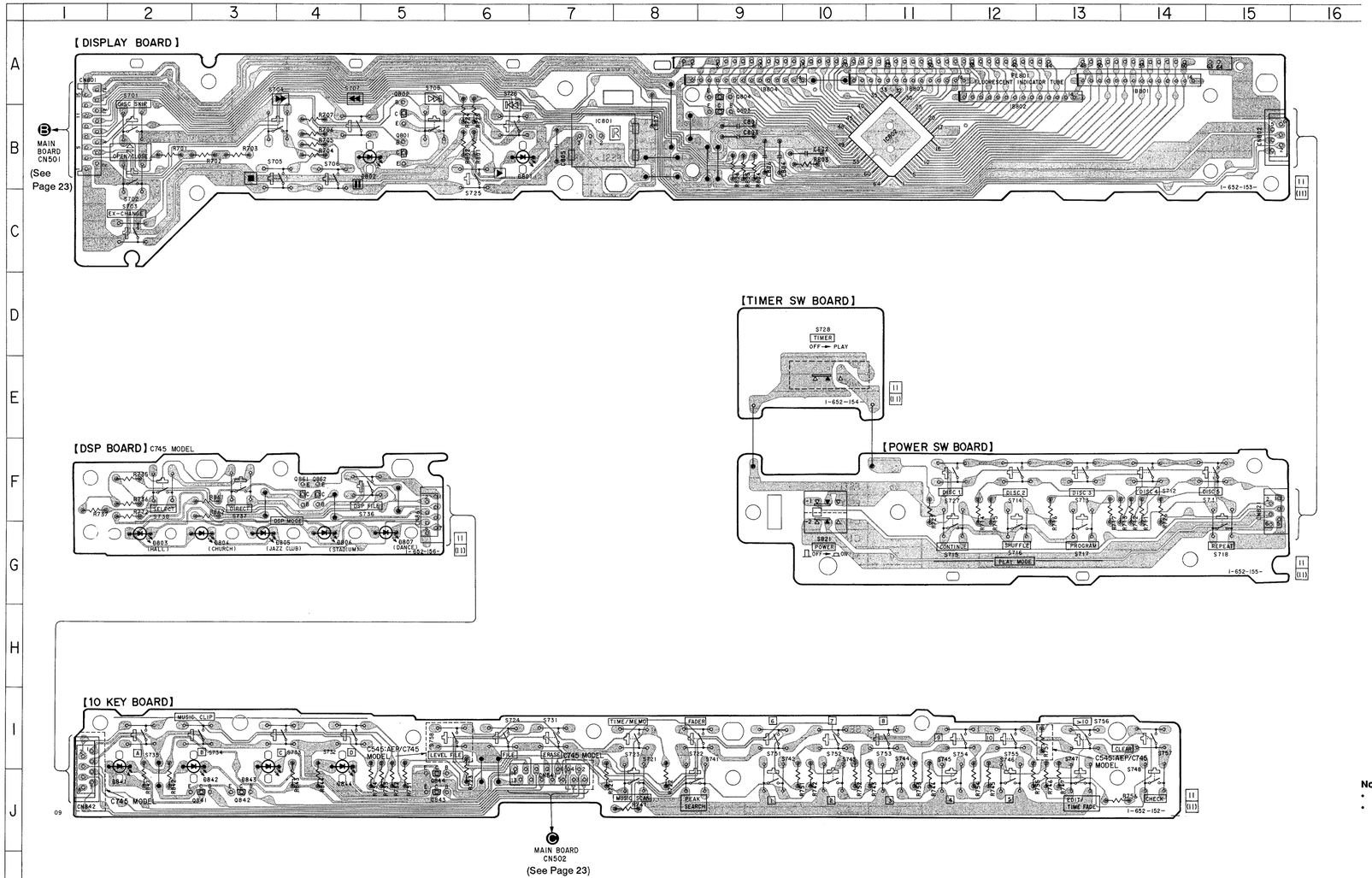
Note:
- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭: panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬: B+ Line
- ▬ ▬ ▬: B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  ✻ : can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

4-9. PRINTED WIRING BOARDS — PANEL SECTION —

- See page 10 for Circuit Boards Location.
- See page 14 for Semiconductor Lead Layouts.



- Semiconductor Location

Ref. No.	Location
D801	B-6
D802	B-5
D803	G-2
D804	G-3
D805	G-4
D806	G-4
D807	G-5
D841	J-2
D842	J-3
D843	J-3
D844	J-4
IC801	B-8
IC802	B-11
Q801	B-5
Q802	A-5
Q803	B-9
Q804	A-9
Q841	J-2
Q842	J-3
Q843	J-5
Q844	I-5
Q861	F-4
Q862	F-4

Note:

- ○——: parts extracted from the component side.
- ▨: Pattern from the side which enable seeing.

4-10. IC PIN FUNCTIONS

- **IC101 (CXD2515Q)**

Pin No.	Pin Name	I/O	Function
1	SRON	O	Sled drive output
2	SRDR	O	Sled drive output
3	SFON	O	Sled drive output
4	TFDR	O	Tracking drive output
5	TRON	O	Tracking drive output
6	TRDR	O	Tracking drive output
7	TFON	O	Tracking drive output
8	FFDR	O	Focus drive output
9	FRON	O	Focus drive output
10	FRDR	O	Focus drive output
11	FFON	O	Focus drive output
12	VCOO	O	VCO output for analog EFM PLL
13	VCOI	I	VCO output for analog EFM PLL
14	TEST	I	TEST pin connected normally to GND
15	DVss	–	Digital GND
16	TES2	I	TEST pin connected normally to GND
17	TES3	I	TEST pin connected normally to GND
18	PDO	O	Charge-pump output for analog EFM PLL
19	VPCO	O	Charge-pump output for variable pitch PLL
20	VCKI	I	Clock input from variable pitch external VCO
21	AVD2	–	Analog power supply
22	IGEN	I	Power supply pin for operational amplifiers
23	AVS2	–	Analog GND
24	ADII	I	Input pin for A/D converter
25	ADIO	O	Operational amplifier output pin
26	RFDC	I	RF signal input
27	TE	I	Tracking error signal input
28	SE	I	Sled error signal input
29	FE	I	Focus error signal input
30	VC	I	Center voltage input pin
31	FILO	O	Filter output for master PLL
32	FILI	I	Filter input for master PLL
33	PCO	O	Charge-pump output for master PLL
34	CLTV	I	Control voltage input for master VCO
35	AVS1	–	Analog GND
36	RFAC	I	EFM signal input
37	BIAS	I	Asymmetry circuit constant current input
38	ASYI	I	Asymmetry comparate voltage input
39	ASYO	O	EFM full swing output
40	AVD1	–	Analog power supply

Pin No.	Pin Name	I/O	Function
41	DVDD	–	Digital power supply
42	ASYE	I	Asymmetry circuit ON/OFF
43	PSSL	I	Audio data output mode selection input
44	WDCK	O	48-bit slot D/A interface. Word clock
45	LRCK	O	48-bit slot D/A interface. LR clock
46	DATA	O	DA 16 output when PSSL=1. 48-bit slot serial data when PSSL=0
47	BCLK	O	DA 15 output when PSSL=1. 48-bit slot data when PSSL=0
48	64DATA	O	DA 14 output when PSSL=1. 64-bit slot data when PSSL=0
49	64BCLK	O	DA 13 output when PSSL=1. 64-bit slot data when PSSL=0
50	64LRCK	O	DA 12 output when PSSL=1. 64-bit slot data when PSSL=0
51	GTOP	O	DA 11 output when PSSL=1. GTOP output when PSSL=0
52	XUGF	O	DA 10 output when PSSL=1. XUGF output when PSSL=0
53	XPLCK	O	DA 09 output when PSSL=1. XPLCK output when PSSL=0
54	GFS	O	DA 08 output when PSSL=1. GFS output when PSSL=0
55	PFCK	O	DA 07 output when PSSL=1. RFCK output when PSSL=0
56	C2PO	O	DA 06 output when PSSL=1. C2PO output when PSSL=0
57	XRAOF	O	DA 05 output when PSSL=1. XRA0F output when PSSL=0
58	MNT3	O	DA 04 output when PSSL=1. MNT3 output when PSSL=0
59	MNT2	O	DA 03 output when PSSL=1. MNT2 output when PSSL=0
60	MNT1	O	DA 02 output when PSSL=1. MNT1 output when PSSL=0
61	MNT0	O	DA 01 output when PSSL=1. MNT0 output when PSSL=0
62	XTAI	I	X'tal oscillator circuit input
63	XTAO	O	X'tal oscillator circuit output
64	XTSL	I	X'tal selection input pin
65	DVss	–	Digital GND
66	FSTI	I	2/3 divider output of pins 62, 63
67	FSTO	O	2/3 divider output of pins 62, 63
68	C4M	O	4.2336 MHz output
69	C16M	O	16.9344 MHz output
70	MD2	I	Digital-out ON/OFF control pin
71	DOUT	O	Digital-out output pin
72	EMPH	O	Playback disc output in emphasis mode
73	WFCK	O	WFCK output
74	SCOR	O	Sub-code sync output
75	SBSO	O	Sub-P through Sub-W serial output
76	EXCK	I	Clock input for SBS0 read-out
77	SUBQ	O	Sub-Q 80-bit output
78	SQCK	I	Clock input for SQS0 read-out
79	MUTE	I	Muting selection pin
80	SENS	O	SENS output
81	XRST	I	System reset
82	DIRC	I	Used in 1-track jump mode
83	SCLK	I	SENS serial data read-out clock
84	DFSW	I	DFCT selection pin
85	ATSK	I	Input pin for anti-shock

Pin No.	Pin Name	I/O	Function
86	DATA	I	Serial data input, supplied from CPU
87	XLAT	I	Latch input, supplied from CPU
88	CLOK	I	Serial data transfer clock input, supplied from CPU
89	COUT	O	Numbers of track counted signal output
90	DV_{DD}	–	Digital power supply
91	MIRR	O	Mirror signal output
92	DFCT	O	Defect signal output
93	FOK	O	Focus OK output
94	FSW	O	Output to select spindle motor output filter
95	MON	O	Output to control ON/OFF of spindle motor
96	MDP	O	Output to control spindle motor servo
97	MDS	O	Output to control spindle motor servo
98	LOCK	O	GFS is sampled by 460 Hz. H when GFS is H
99	SSTP	I	Input signal to detect disc inner most track
100	SFDR	O	Sled drive output

- **IC501 SYSTEM CONTROL (CXP84124-014Q (C545))**
  (CXP84332-004Q (C745))

PIN No.	PIN NAME	I/O	FUNCTION
1 to 10	A3 to A12	O	S-RAM address control output pin.
11	PLAY LED	O	▷ LED ON/OFF pin.
12	PAUSE LED	O	▮▮ LED ON/OFF pin.
13	DSP LED/	O	LED ON/OFF pin.
14	LED-CLIP-C	O	
15	LED-CLIP-D	O	
16	LED-CLIP-B	O	
17	LED-CLIP-A	O	
18	VOL LED	O	Volume LED control pin.
19	$\overline{\text{DSP}}$ LED3	O	LED ON/OFF pin.
20	$\overline{\text{DSP}}$ LED2	O	
21	$\overline{\text{DSP}}$ LED1	O	
22	GAIN 2	O	Gain switch control pin.
23	GAIN 1	O	
24	LEVEL SW	–	C545: US, CND, E, AUS are GND, C545: AEP is +5V, C745 is (OPEN) NC.
25	DSPLT	O	Serial data latch signal output pin to Digital Signal processor.
26	TBL-L	O	Table motor control pin.
27	TBL-R	O	
28	LOD-IN	O	Loading motor control pin.
29	LOD-OUT	O	
30	RESET	I	Reset signal input pin.
31	EXTAL	I	8 MHz clock input pin.
32	XTAL	O	8 MHz clock output pin.
33	Vss	–	GND
34	TX	–	Not used.
35	TEX	–	
36	AVss	–	GND
37	AVREF	I	Reference voltage input pin of A/D conversion. (Connected GND)
38 to 43	KEY0 to KEY5	I	Key input pin. (A/D)
44	VOL LEVEL	I	Volume level input pin.
45	ADJ/AFJ	I	Test mode pin. Normally: "H"
46	T.SENSE	I	Slit sensor of disc table input pin.
47	AMUTE	O	Analog muting control signal output pin.
48	CLK	O	Serial clock output pin to BD.
49	LDON	O	Optical pick-up laser diode control pin. ON: "H"
50	DATA	O	Serial data output pin.
51	SQCLK	O	Subcode Q data readout clock output pin.
52	SUBQ	I	Subcode Q data input pin.
53, 54	–	–	Not used.
55	SENSE	I	SENSE signal input pin.

PIN No.	PIN NAME	I/O	FUNCTION
56	SIRCS	I	Remote control signal input pin.
57	D. SENS	I	Disc sensor input pin.
58	PRGL	O	Latch signal output pin to digital filter IC.
59	XLT	O	Serial data latch signal output pin.
60	CE	O	Chip enable output.
61	SCOR	I	Subcode Q data readout timing signal input pin.
62	VOL DWN	O	Volume motor drive pin.
63	VOL UP	O	
64 to 66	S1 to S3	I	Rotaly encoder input (S901).
67	$\overline{WE}$	O	Write enable output pin.
68 to 71	D4 to D7	O	FL segment output pin.
72	–	–	Connected to +5V.
73	V_{DD}	–	Power supply pin. (+5V)
74 to 77	D0 to D3	O	FL timing output pin.
78 to 80	A0 to A2	O	S-RAM address control output pin.

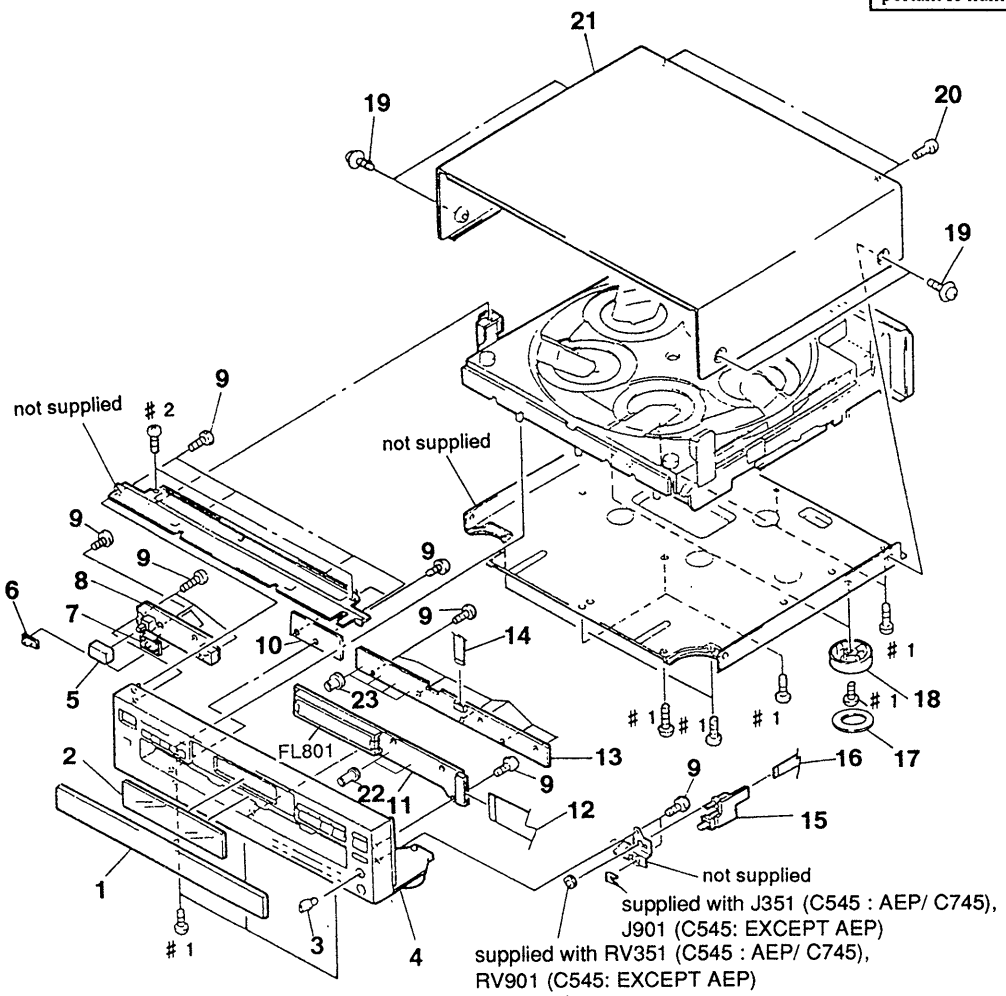
SECTION 5
EXPLODED VIEWS

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- CND : Canadian model
  AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

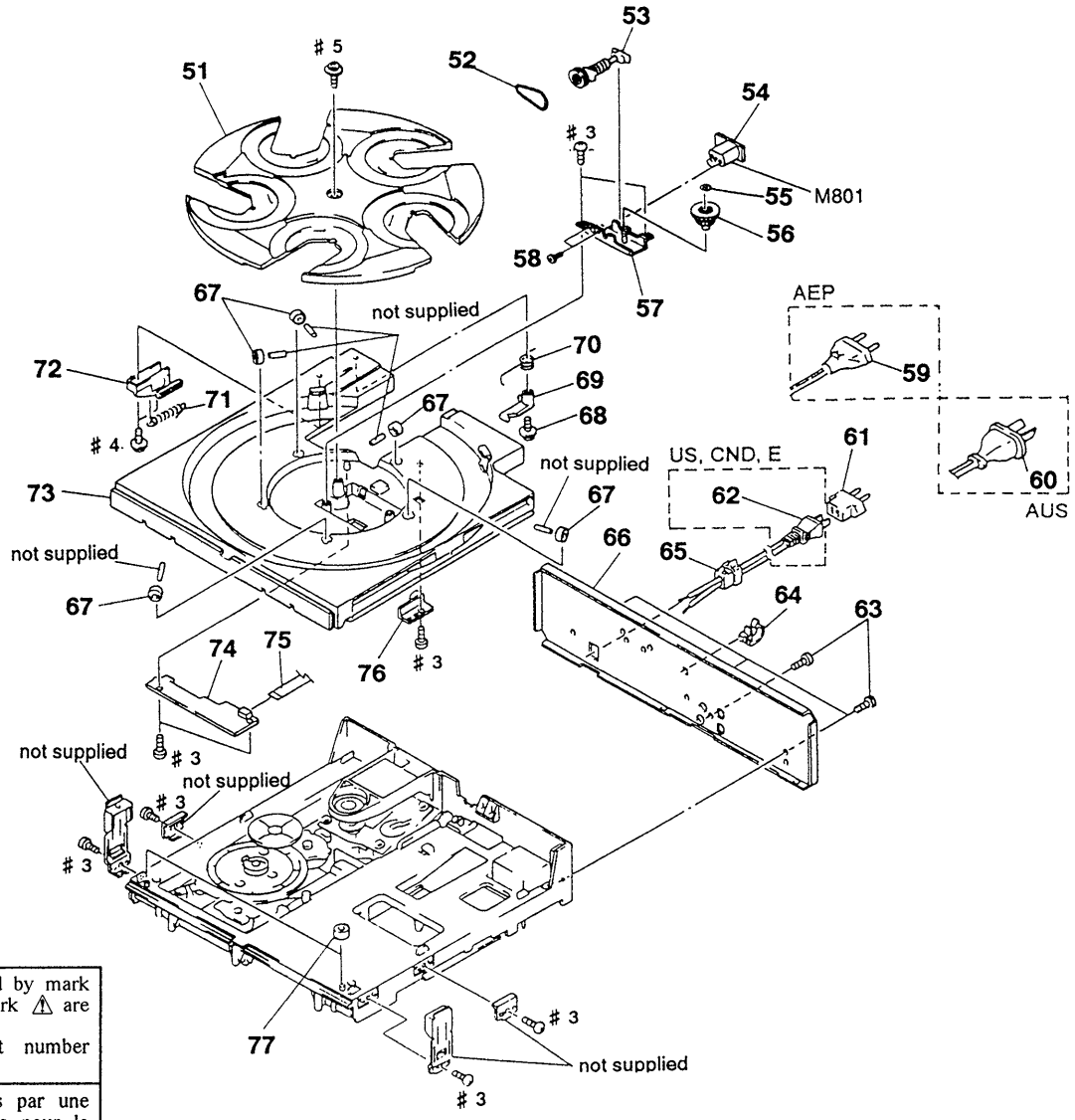
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. FRONT PANEL AND CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-964-694-01	PANEL, LOADING	
2	4-965-461-01	PLATE, INDICATION (C745)	
2	4-965-461-11	PLATE, INDICATION (C545)	
3	4-950-189-01	KNOB (A) (VOL) (C545:EXCEPT AEP)	
3	A-4660-389-A	KNOB (HP) ASSY (C545:AEP/C745)	
4	X-4944-756-1	PANEL ASSY, FRONT (C745:US, CND)	
4	X-4944-757-1	PANEL ASSY, FRONT (C745:AEP)	
4	X-4944-758-1	PANEL ASSY, FRONT (C545:AEP)	
4	X-4944-759-1	PANEL ASSY, FRONT (C545:US, CND)	
4	X-4944-760-1	PANEL ASSY, FRONT (C545:E, AUS)	
5	4-922-921-01	BUTTON (POWER)	
6	4-922-518-01	KNOB (TIMER)	
* 7	1-652-154-11	TIMER SW BOARD	
* 8	1-652-155-11	POWER SW BOARD	
9	4-951-620-01	SCREW (2.6X8), +BVTP	
* 10	1-652-156-11	DSP BOARD (C745)	
* 11	A-4673-092-A	DISPLAY BOARD, COMPLETE	
12	1-765-264-11	WIRE (FLAT TYPE) (16 CORE)	
* 13	A-4673-093-A	10 KEY BOARD, COMPLETE (C745)	
* 13	A-4673-097-A	10 KEY BOARD, COMPLETE (C545:EXCEPT AEP)	
* 13	A-4673-100-A	10 KEY BOARD, COMPLETE (C545:AEP)	
14	1-765-250-11	WIRE (FLAT TYPE) (14 CORE) (C745)	
14	1-765-266-11	WIRE (FLAT TYPE) (10 CORE) (C545)	
* 15	1-652-157-11	HEADPHONE BOARD (C545:AEP/C745)	
* 15	1-652-158-11	HEADPHONE BOARD (C545:US, CND, E, AUS)	
16	1-765-249-11	WIRE (FLAT TYPE) (13 CORE) (C545:AEP/C745)	
16	1-765-251-11	WIRE (FLAT TYPE) (5 CORE) (C545:EXCEPT AEP)	
17	4-923-836-11	CUSHION	
18	X-4942-197-1	FOOT ASSY (C545:US, CND/C745:US, CND)	
18	X-4942-198-1	FOOT ASSY (C545:AEP, E, AUS/C745:AEP)	
19	3-704-366-01	SCREW (CASE) (M3X8)	
20	3-703-685-21	SCREW (+BV 3X8)	
21	4-944-153-51	CASE	
* 22	3-362-478-11	LED HOLDER (T)	
* 23	3-362-478-21	LED HOLDER (T)	
FL801	1-517-278-11	INDICATOR TUBE, FLUORESCENT	

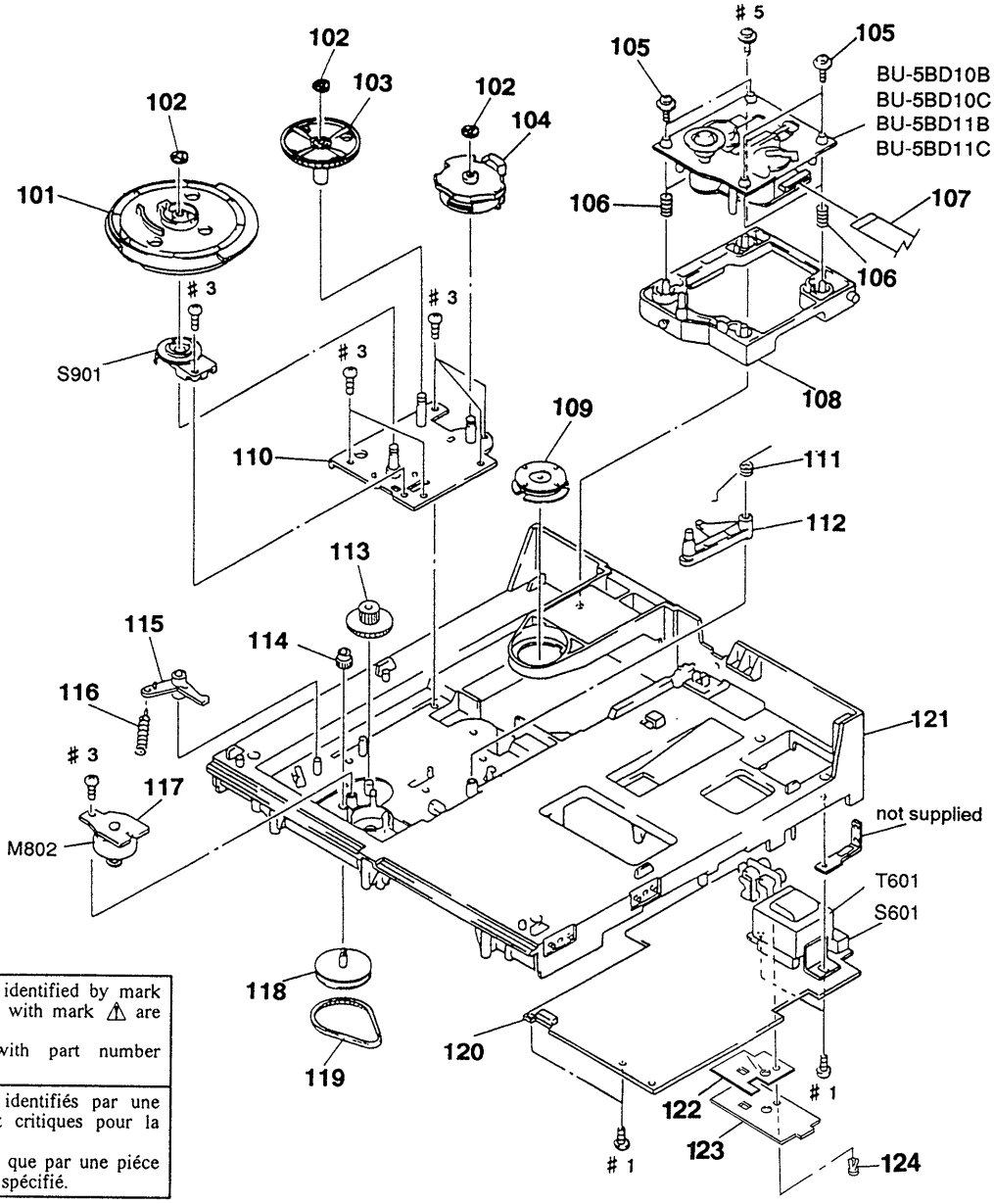
5-2. BACK PANEL AND DISC TABLE SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	4-957-299-01	TABLE (B), DISC	
52	4-957-304-01	BELT (RM)	
53	X-4943-479-1	GEAR (ROTARY A) ASSY	
* 54	1-647-364-11	TABLE MOTOR BOARD	
55	3-325-697-01	WASHER	
56	4-957-284-01	GEAR (LOTARY B)	
57	X-4943-477-1	BRACKET (RM) ASSY	
58	4-965-659-01	SCREW (+B 2X2.2)	
⚠59	1-575-651-21	CORD, POWER (C545:AEP/C745:AEP)	
⚠60	1-696-845-11	CORD, POWER (C545:AUS)	
⚠61	1-569-007-11	ADAPTER, CONVERSION 2P (C545:E)	
⚠62	1-590-836-11	CORD, POWER (C545:US, CND/C745:US, CND)	
⚠62	1-696-027-11	CORD, POWER (C545:E)	
63	3-704-515-21	SCREW (BV/RING)	
* 64	4-949-235-01	HOOK	
* 65	3-703-244-00	BUSHING (2104), CORD(C545:EXCEPT E/C745)	
* 65	3-703-571-11	BUSHING (S)(4516), CORD (C545:E)	
* 66	4-965-464-01	PANEL, BACK (C745:US, CND)	
* 66	4-965-464-11	PANEL, BACK (C745:AEP)	
* 66	4-965-464-21	PANEL, BACK (C545:AEP)	
* 66	4-965-464-31	PANEL, BACK (C545:US, CND)	
* 66	4-965-464-41	PANEL, BACK (C545:E)	
* 66	4-965-464-51	PANEL, BACK (C545:AUS)	
67	X-4924-457-1	ROLLER ASSY	
68	4-957-868-01	SCREW (+PTPWH 2.6X20)	
69	4-957-291-01	LEVER (RACK RELEASE)	
70	4-957-293-01	SPRING (RACK RELEASE)	
71	4-957-294-01	SPRING (D.T), TENSION	
72	4-957-292-01	SLIDER (RACK)	
* 73	4-957-298-01	TABLE (A), DISC	
* 74	1-647-362-11	SENSOR BOARD	
75	1-751-052-11	WIRE (FLAT TYPE)(6 CORE)	
76	X-4943-480-1	BRACKET (ROLLER D) ASSY	
* 77	4-951-619-01	CUSHION (A)	
M801	A-4660-322-A	MOTOR ASSY, ROTARY (TABLE)	

5-3. CHASSIS SECTION



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Replace only with part number specified.

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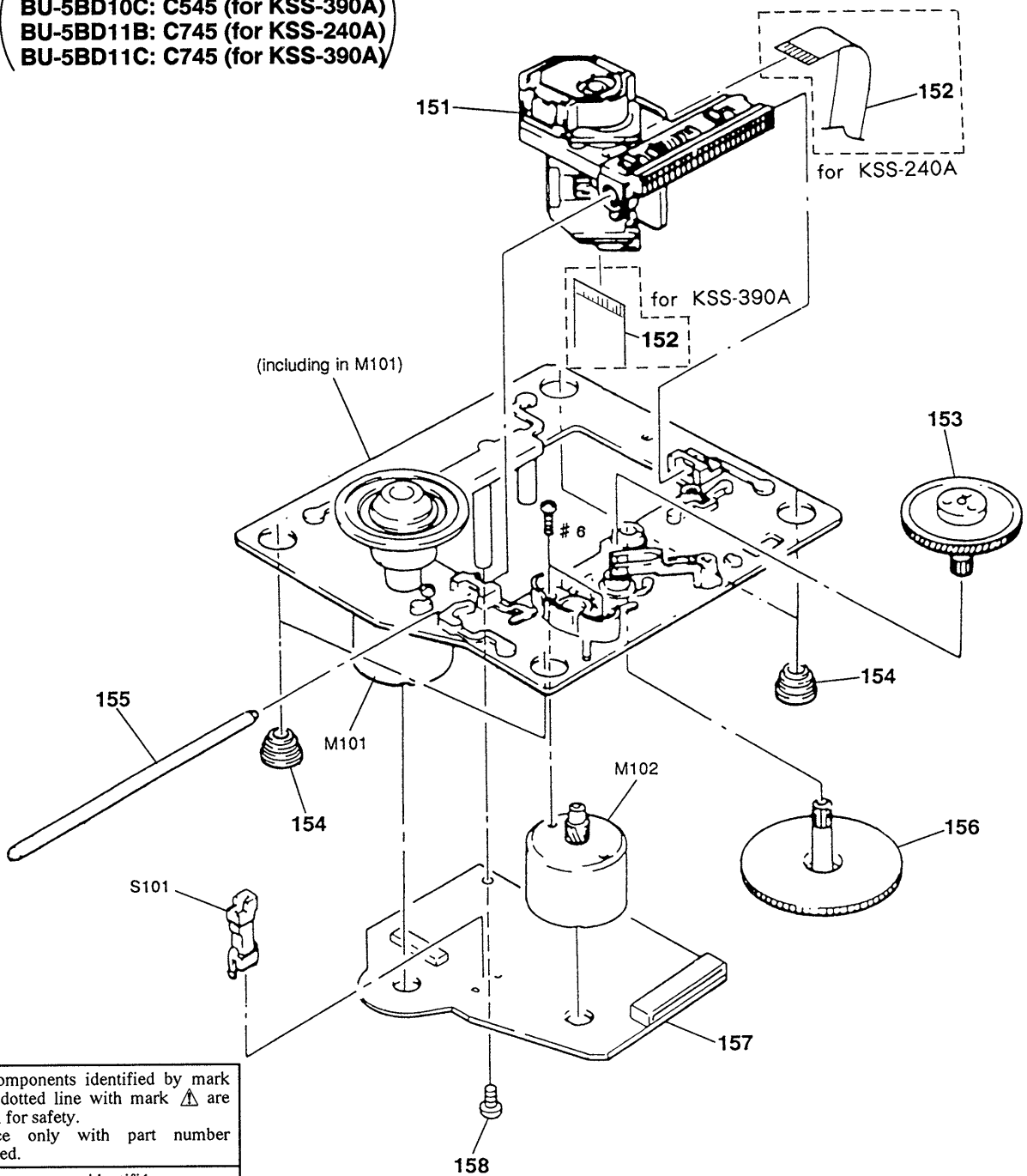
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	4-957-288-01	GEAR (MAIN)	
102	4-957-283-01	WASHER (5), STOPPER	
103	4-957-287-01	GEAR (REV)	
104	4-957-286-01	GEAR (U/D)	
105	4-933-134-01	SCREW (+PTPWH M2.6X6)	
106	4-948-503-01	SPRING (BU), COMPRESSION	
107	1-765-265-11	WIRE (FLAT TYPE) (23 CORE)	
* 108	4-957-289-01	HOLDER (BU)	
* 109	1-452-538-11	MAGNET	
110	X-4943-478-1	BRACKET (GEAR) ASSY	
111	4-957-281-01	SPRING (LOCK LEVER)	
112	4-957-279-01	LEVER, LOCK	
113	4-957-303-01	GEAR (LOADING C)	
114	4-934-375-01	GEAR (LOADING B)	
115	4-957-285-01	LEVER, SET	
116	4-962-087-01	SPRING (S), TENSION	
* 117	1-649-802-11	LOADING MOTOR BOARD	
118	X-4941-529-1	PULLEY ASSY	
119	4-944-490-01	BELT (TIMING)	

Ref. No.	Part No.	Description	Remark
* 120	A-4673-095-A	MAIN BOARD, COMPLETE (C745:US, CND)	
* 120	A-4673-096-A	MAIN BOARD, COMPLETE (C745:AEP)	
* 120	A-4673-099-A	MAIN BOARD, COMPLETE (C545:US, CND, AUS)	
* 120	A-4673-101-A	MAIN BOARD, COMPLETE (C545:AEP)	
* 120	A-4673-102-A	MAIN BOARD, COMPLETE (C545:E)	
* 121	4-957-300-03	CHASSIS	
* 122	4-957-556-01	SHEET, INSULATING (C545:AEP, E, AUS/C745:AEP)	
* 123	4-957-555-01	SHEET, INSULATING (C545:AEP, E, AUS/C745:AEP)	
124	3-531-576-11	RIVET (C545:AEP, E, AUS/C745:AEP)	
M802	A-4604-834-A	MOTOR ASSY, LOADING	
⚠S601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (C545:E)	
S901	1-466-996-11	ENCODER, ROTARY	
⚠T601	1-423-553-11	TRANSFORMER, POWER (C545:US, CND/C745:US, CND)	
⚠T601	1-423-554-11	TRANSFORMER, POWER (C545:AEP, AUS/C745:AEP)	
⚠T601	1-423-555-11	TRANSFORMER, POWER (C545:E)	

5-4. BASE UNIT SECTION

(BU-5BD10B: C545 (for KSS-240A)
BU-5BD10C: C545 (for KSS-390A)
BU-5BD11B: C745 (for KSS-240A)
BU-5BD11C: C745 (for KSS-390A))



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Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠151	8-848-144-11	OPTICAL PICK-UP BLOCK (KSS-240A)	
⚠151	8-848-281-11	OPTICAL PICK-UP BLOCK (KSS-390A)	
152	1-575-001-11	WIRE, FLAT TYPE (12 CORE) (for KSS-240A)	
152	1-647-341-11	FLEXIBLE BOARD (for KSS-390A)	
153	4-917-567-01	GEAR (M)	
154	4-951-940-01	INSULATOR (BU)	
155	4-917-565-01	SHAFT, SLED	
156	4-917-564-01	GEAR (P), FLATNESS	
* 157	A-4649-432-A	BD BOARD, COMPLETE (C545) (for KSS-240A)	
* 157	A-4649-433-A	BD BOARD, COMPLETE (C745) (for KSS-240A)	
* 157	A-4649-994-A	BD BOARD, COMPLETE (C545) (for KSS-390A)	
* 157	A-4649-995-A	BD BOARD, COMPLETE (C745) (for KSS-390A)	
158	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-523-3	BASE (OUT SERT) ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

SECTION 6
ELECTRICAL PARTS LIST

10 KEY

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- CND : Canadian model
  AUS : Australian model
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref.No.	Part No.	Description	Remark
*	A-4673-093-A	10 KEY BOARD, COMPLETE (C745)	
		**********	
*	A-4673-097-A	10 KEY BOARD, COMPLETE	
		**********	
			(C545:US, CND, E, AUS)
*	A-4673-100-A	10 KEY BOARD, COMPLETE (C545:AEP)	
		**********	
		< CONNECTOR >	
CN841	1-750-228-11	CONNECTOR, FFC/FPC 10P (C545)	
CN841	1-750-231-11	CONNECTOR, FFC/FPC 14P (C745)	
* CN842	1-695-823-11	CONNECTOR, BOARD TO BOARD 8P (C745)	
		< DIODE >	
D841	8-719-310-71	DIODE SEL2510C-D (A)	
D842	8-719-310-71	DIODE SEL2510C-D (B)	
D843	8-719-310-71	DIODE SEL2510C-D (C)	
D844	8-719-310-71	DIODE SEL2510C-D (D)	
		< TRANSISTOR >	
Q841	8-729-900-89	TRANSISTOR DTC144ES	
Q842	8-729-900-89	TRANSISTOR DTC144ES	
Q843	8-729-900-89	TRANSISTOR DTC144ES	
Q844	8-729-900-89	TRANSISTOR DTC144ES	
		< RESISTOR >	
R721	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R722	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R723	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R731	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R732	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R733	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R734	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R741	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R742	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R743	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R744	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R745	1-249-426-11	CARBON 5.6K 5% 1/4W	
R746	1-249-430-11	CARBON 12K 5% 1/4W	
R747	1-249-435-11	CARBON 33K 5% 1/4W	
R751	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R752	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R753	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R754	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R755	1-249-426-11	CARBON 5.6K 5% 1/4W	
R756	1-249-430-11	CARBON 12K 5% 1/4W	
R757	1-249-435-11	CARBON 33K 5% 1/4W	
			(C545:AEP/C745)
R841	1-249-406-11	CARBON 120 5% 1/4W F	
R842	1-249-406-11	CARBON 120 5% 1/4W F	
R843	1-249-406-11	CARBON 120 5% 1/4W F	
R844	1-249-406-11	CARBON 120 5% 1/4W F	
		< SWITCH >	
S721	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
S722	1-554-303-21	SWITCH, TACTILE (FADER)	
S723	1-554-303-21	SWITCH, TACTILE (TIME/MEMO)	
S724	1-554-303-21	SWITCH, TACTILE (FILE)	
S731	1-554-303-21	SWITCH, TACTILE (ERASE)	
S732	1-554-303-21	SWITCH, TACTILE (D)	
S733	1-554-303-21	SWITCH, TACTILE (C)	
S734	1-554-303-21	SWITCH, TACTILE (B)	
S735	1-554-303-21	SWITCH, TACTILE (A)	
S741	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
S742	1-554-303-21	SWITCH, TACTILE (1)	
S743	1-554-303-21	SWITCH, TACTILE (2)	
S744	1-554-303-21	SWITCH, TACTILE (3)	
S745	1-554-303-21	SWITCH, TACTILE (4)	
S746	1-554-303-21	SWITCH, TACTILE (5)	
S747	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)	
S748	1-554-303-21	SWITCH, TACTILE (CHECK)	
S751	1-554-303-21	SWITCH, TACTILE (6)	
S752	1-554-303-21	SWITCH, TACTILE (7)	
S753	1-554-303-21	SWITCH, TACTILE (8)	
S754	1-554-303-21	SWITCH, TACTILE (9)	
S755	1-554-303-21	SWITCH, TACTILE (10)	
S756	1-554-303-21	SWITCH, TACTILE (>10)	
S757	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S758	1-554-303-21	SWITCH, TACTILE (LEVEL FILE)	
			(C545:AEP/C745)

****

BD DISPLAY

Ref.No.	Part No.	Description			Remark
*	A-4649-432-A	BD BOARD, COMPLETE (C545) (for KSS-240A)			
		**********			
*	A-4649-994-A	BD BOARD, COMPLETE (C545) (for KSS-390A)			
		**********			
*	A-4649-433-A	BD BOARD, COMPLETE (C745) (for KSS-240A)			
		**********			
*	A-4649-995-A	BD BOARD, COMPLETE (C745) (for KSS-390A)			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C102	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C103	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C105	1-135-155-21	TANTALUM CHIP	4.7uF	10% 16V	
C106	1-164-346-11	CERAMIC CHIP	1uF	16V	
C107	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C108	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10% 50V	
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5% 50V	
C111	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C112	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C113	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C123	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C124	1-164-005-11	CERAMIC CHIP	0.47uF	25V	
C151	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C152	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C153	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C154	1-164-336-11	CERAMIC CHIP	0.33uF	25V	
C155	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C156	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C157	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C158	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C159	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V	
C160	1-163-019-00	CERAMIC CHIP	0.0068uF	10% 50V	
C161	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
* CN101	1-568-865-11	SOCKET, CONNECTOR 23P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
		< IC >			
IC101	8-752-360-75	IC CXD2599Q (for KSS-390A)			
IC101	8-752-361-90	IC CXD2515Q (for KSS-240A)			
IC102	8-759-071-79	IC BA6297AFP			
		< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R102	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R103	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R104	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R105	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R106	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R107	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R108	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R109	1-216-121-00	METAL CHIP	1M	5% 1/10W	
R110	1-216-025-00	METAL CHIP	100	5% 1/10W	
R112	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R113	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R114	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R117	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R118	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R121	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R122	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R123	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R124	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R125	1-216-049-00	METAL CHIP	1K	5% 1/10W	(C545)
R126	1-216-049-00	METAL CHIP	1K	5% 1/10W	(C545)
R127	1-216-049-00	METAL CHIP	1K	5% 1/10W	(C545)
R128	1-216-049-00	METAL CHIP	1K	5% 1/10W	(C745)
R129	1-216-049-00	METAL CHIP	1K	5% 1/10W	(C745)
R130	1-216-049-00	METAL CHIP	1K	5% 1/10W	(C745)
R131	1-216-037-00	METAL CHIP	330	5% 1/10W	
R151	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R152	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R153	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R154	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R155	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R156	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R157	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R158	1-216-076-00	METAL CHIP	13K	5% 1/10W	
R159	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R160	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R161	1-216-308-00	METAL CHIP	4.7	5% 1/10W	
R162	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R163	1-216-093-00	METAL CHIP	68K	5% 1/10W	
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
*	A-4673-092-A	DISPLAY BOARD, COMPLETE			
		**********			
*	3-362-478-11	HOLDER (T), LED			
		< CAPACITOR >			
C801	1-161-494-00	CERAMIC	0.022uF	25V	
C802	1-162-211-31	CERAMIC	33PF	5% 50V	
C803	1-164-159-11	CERAMIC	0.1uF	50V	

Ref.No.	Part No.	Description			Remark
C804	1-164-159-11	CERAMIC	0.1uF		50V
C805	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-162-282-31	CERAMIC	100PF	10%	50V
C807	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CN801	1-750-233-11	CONNECTOR, FFC/FPC 16P			
CN802	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D801	8-719-303-02	DIODE SEL2510C-D (▷)			
D802	8-719-303-17	DIODE SEL2810A-D (▮▮)			
		< FLUORESCENT INDICATOR >			
FL801	1-517-278-11	INDICATOR TUBE, FLUORESCENT			
		< COMPOSITION CIRCUIT BLOCK >			
IB801	1-232-817-11	COMPOSITION CIRCUIT BLOCK			
IB802	1-232-817-11	COMPOSITION CIRCUIT BLOCK			
IB803	1-232-817-11	COMPOSITION CIRCUIT BLOCK			
IB804	1-232-817-11	COMPOSITION CIRCUIT BLOCK			
		< IC >			
IC801	8-749-920-83	IC GP1U52XB			
IC802	8-759-823-57	IC LC75711E			
		< TRANSISTOR >			
Q801	8-729-900-89	TRANSISTOR DTC144ES			
Q802	8-729-900-89	TRANSISTOR DTC144ES			
Q803	8-729-900-89	TRANSISTOR DTC144ES			
Q804	8-729-900-89	TRANSISTOR DTC144ES			
		< RESISTOR >			
R701	1-249-418-11	CARBON	1.2K	5%	1/4W F
R702	1-249-419-11	CARBON	1.5K	5%	1/4W F
R703	1-249-421-11	CARBON	2.2K	5%	1/4W F
R704	1-249-423-11	CARBON	3.3K	5%	1/4W F
R705	1-249-426-11	CARBON	5.6K	5%	1/4W
R706	1-249-430-11	CARBON	12K	5%	1/4W
R707	1-249-435-11	CARBON	33K	5%	1/4W
R724	1-249-428-11	CARBON	8.2K	5%	1/4W F
R725	1-249-426-11	CARBON	5.6K	5%	1/4W
R801	1-249-406-11	CARBON	120	5%	1/4W F
R802	1-249-409-11	CARBON	220	5%	1/4W F
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-417-11	CARBON	1K	5%	1/4W F
R805	1-249-417-11	CARBON	1K	5%	1/4W F
R806	1-249-417-11	CARBON	1K	5%	1/4W F

Ref.No.	Part No.	Description			Remark
		< SWITCH >			
S701	1-554-303-21	SWITCH, TACTILE (DISC SKIP)			
S702	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)			
S703	1-554-303-21	SWITCH, TACTILE (EX-CHANGE)			
S704	1-554-303-21	SWITCH, TACTILE (▶▶)			
S705	1-554-303-21	SWITCH, TACTILE (■)			
S706	1-554-303-21	SWITCH, TACTILE (▮▮)			
S707	1-554-303-21	SWITCH, TACTILE (◀◀)			
S708	1-554-303-21	SWITCH, TACTILE (▷▷▮)			
S725	1-554-303-21	SWITCH, TACTILE (▷)			
S726	1-554-303-21	SWITCH, TACTILE (▮◁◁)			
**********					
*	1-652-156-11	DSP BOARD (C745)			
		**********			
		< CONNECTOR >			
* CN861	1-695-822-11	CONNECTOR, BOARD TO BOARD 8P (C745)			
		< DIODE >			
D803	8-719-301-52	SEL2810A-C (HALL)			
D804	8-719-301-52	SEL2810A-C (CHURCH)			
D805	8-719-301-52	SEL2810A-C (JAZZ CLUB)			
D806	8-719-301-52	SEL2810A-C (STADIUM)			
D807	8-719-301-52	SEL2810A-C (DANCE)			
		< TRANSISTOR >			
Q861	8-729-900-61	TRANSISTOR DTA114ES			
Q862	8-729-900-61	TRANSISTOR DTA114ES			
		< RESISTOR >			
R735	1-249-426-11	CARBON	5.6K	5%	1/4W
R736	1-249-430-11	CARBON	12K	5%	1/4W
R737	1-249-435-11	CARBON	33K	5%	1/4W
R772	1-249-421-11	CARBON	2.2K	5%	1/4W F
R861	1-249-409-11	CARBON	220	5%	1/4W F
R862	1-249-409-11	CARBON	220	5%	1/4W F
		< SWITCH >			
S736	1-554-303-21	SWITCH, TACTILE (DSP FILE)			
S737	1-554-303-21	SWITCH, TACTILE (DIRECT)			
S738	1-554-303-21	SWITCH, TACTILE (SELECT)			
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HEADPHONE | LOADING MOTOR | MAIN

Ref.No.	Part No.	Description			Remark
*	1-652-157-11	HEADPHONE BOARD (C545:AEP/C745)			
		**********			
		< CAPACITOR >			
C151	1-162-294-31	CERAMIC	0.001uF	10%	50V
C251	1-162-294-31	CERAMIC	0.001uF	10%	50V
C353	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN351	1-750-230-11	CONNECTOR, FFC/FPC 13P			
		< JACK >			
J351	1-750-162-41	JACK (LARGE TYPE) (PHONES)			
		< VARIABLE RESISTOR >			
RV351	1-241-917-11	RES, VAR, CARBON 10K/10K/10K (LINE OUT PHONE LEVEL)			
**********					
*	1-652-158-11	HEADPHONE BOARD (C545:US, CND, E, AUS)			
		**********			
		< CAPACITOR >			
C901	1-164-159-11	CERAMIC	0.1uF		50V
C902	1-162-290-31	CERAMIC	470PF	10%	50V
C903	1-162-290-31	CERAMIC	470PF	10%	50V
		< CONNECTOR >			
CN901	1-750-737-11	CONNECTOR, FFC/FPC 5P			
		< JACK >			
J901	1-750-162-41	JACK (LARGE TYPE) (PHONES)			
		< COIL >			
L901	1-412-473-21	INDUCTOR 0uH			
		< RESISTOR >			
R901	1-249-402-11	CARBON	56	5%	1/4W F
R902	1-249-402-11	CARBON	56	5%	1/4W F
		< VARIABLE RESISTOR >			
RV901	1-223-359-11	RES, VAR, CARBON 1K/1K (PHONE LEVEL)			
**********					

Ref.No.	Part No.	Description			Remark
*	1-648-802-11	LOADING MOTOR BOARD			
		**********			
		< MOTOR >			
M802	A-4604-834-A	MOTOR ASSY, LOADING			
**********					
*	A-4673-095-A	MAIN BOARD, COMPLETE (C745:US, CND)			
		**********			
*	A-4673-096-A	MAIN BOARD, COMPLETE (C745:AEP)			
		**********			
*	A-4673-099-A	MAIN BOARD, COMPLETE (C545:US, CND, AUS)			
		**********			
*	A-4673-101-A	MAIN BOARD, COMPLETE (C545:AEP)			
		**********			
*	A-4673-102-A	MAIN BOARD, COMPLETE (C545:E)			
		**********			
	7-685-647-79	SCREW +P 3X10 TYPE2 NON-SLIT			
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-162-282-31	CERAMIC	100PF	10%	50V
C103	1-162-213-31	CERAMIC	39PF	5%	50V (C745)
C103	1-162-215-31	CERAMIC	47PF	5%	50V (C545)
C104	1-162-213-31	CERAMIC	39PF	5%	50V (C745)
C104	1-162-215-31	CERAMIC	47PF	5%	50V (C545)
C105	1-124-994-11	ELECT	100uF	20%	10V
C106	1-130-472-00	MYLAR	0.0012uF	5%	50V
C107	1-106-359-00	MYLAR	4700PF	5%	200V
C108	1-162-211-31	CERAMIC	33PF	5%	50V (C745)
C109	1-126-101-11	ELECT	100uF	20%	16V (C745)
C110	1-124-994-11	ELECT	100uF	20%	10V
C111	1-124-463-00	ELECT	0.1uF	20%	50V (C745)
C112	1-124-463-00	ELECT	0.1uF	20%	50V (C745)
C113	1-130-467-00	MYLAR	470PF	5%	50V
C201	1-164-159-11	CERAMIC	0.1uF		50V
C202	1-162-282-31	CERAMIC	100PF	10%	50V
C203	1-162-213-31	CERAMIC	39PF	5%	50V (C745)
C203	1-162-215-31	CERAMIC	47PF	5%	50V (C545)
C204	1-162-213-31	CERAMIC	39PF	5%	50V (C745)
C204	1-162-215-31	CERAMIC	47PF	5%	50V (C545)
C205	1-124-994-11	ELECT	100uF	20%	10V
C206	1-130-472-00	MYLAR	0.0012uF	5%	50V
C207	1-106-359-00	MYLAR	4700PF	5%	200V
C208	1-162-211-31	CERAMIC	33PF	5%	50V (C745)
C209	1-126-101-11	ELECT	100uF	20%	16V (C745)
C210	1-124-994-11	ELECT	100uF	20%	10V

Ref.No.	Part No.	Description				Remark
C211	1-124-463-00	ELECT	0.1uF	20%	50V	(C745)
C212	1-124-463-00	ELECT	0.1uF	20%	50V	(C745)
C213	1-130-467-00	MYLAR	470PF	5%	50V	
C301	1-126-786-11	ELECT	47uF	20%	16V	
C302	1-164-159-11	CERAMIC	0.1uF		50V	
C303	1-164-159-11	CERAMIC	0.1uF		50V	
C305	1-161-494-00	CERAMIC	0.022uF		25V	
C306	1-162-199-31	CERAMIC	10PF	5%	50V	(C545)
C307	1-164-159-11	CERAMIC	0.1uF		50V	
C308	1-162-196-31	CERAMIC	5.6PF	10%	50V	(C545)
C308	1-162-199-31	CERAMIC	10PF	5%	50V	(C745)
C309	1-162-196-31	CERAMIC	5.6PF	10%	50V	(C545)
C309	1-162-199-31	CERAMIC	10PF	5%	50V	(C745)
C310	1-162-215-31	CERAMIC	47PF	5%	50V	(C545)
C311	1-126-022-11	ELECT	47uF	20%	16V	
C312	1-161-494-00	CERAMIC	0.022uF		25V	
C315	1-126-025-11	ELECT	330uF	20%	16V	
C316	1-126-025-11	ELECT	330uF	20%	16V	
C317	1-126-301-11	ELECT	1uF	20%	50V	
C318	1-126-022-11	ELECT	47uF	20%	16V	
C319	1-126-049-11	ELECT	22uF	20%	25V	
C351	1-126-023-11	ELECT	100uF	20%	16V	
C352	1-126-023-11	ELECT	100uF	20%	16V	
C401	1-126-022-11	ELECT	47uF	20%	16V	(C545:US, CND, E, AUS)
C401	1-126-786-11	ELECT	47uF	20%	16V	(C545:E/C745)
C404	1-162-208-31	CERAMIC	24PF	5%	50V	(C745)
C405	1-126-022-11	ELECT	47uF	20%	16V	(C745)
C406	1-164-159-11	CERAMIC	0.1uF		50V	(C745)
C407	1-164-159-11	CERAMIC	0.1uF		50V	(C745)
C408	1-161-494-00	CERAMIC	0.022uF		25V	(C745)
C409	1-126-022-11	ELECT	47uF	20%	16V	(C745)
C410	1-162-208-31	CERAMIC	24PF	5%	50V	(C745)
C412	1-164-159-11	CERAMIC	0.1uF		50V	
C413	1-126-022-11	ELECT	47uF	20%	16V	
C415	1-164-159-11	CERAMIC	0.1uF		50V	
C416	1-164-159-11	CERAMIC	0.1uF		50V	
C417	1-164-159-11	CERAMIC	0.1uF		50V	
C418	1-164-159-11	CERAMIC	0.1uF		50V	
C419	1-164-159-11	CERAMIC	0.1uF		50V	
C501	1-126-022-11	ELECT	47uF	20%	16V	
C502	1-164-159-11	CERAMIC	0.1uF		50V	
C503	1-164-159-11	CERAMIC	0.1uF		50V	
C511	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C512	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C513	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C531	1-104-905-11	CAP, DOUBLE LAYERS 0.22F				(C545:AEP, E)
C531	1-125-705-11	CAP, DOUBLE LAYERS 0.22F				(C545:US, CND, AUS/C745)
C532	1-164-159-11	CERAMIC	0.1uF		50V	
C533	1-161-494-00	CERAMIC	0.022uF		25V	
C551	1-126-022-11	ELECT	47uF	20%	16V	
C552	1-126-022-11	ELECT	47uF	20%	16V	
C562	1-164-159-11	CERAMIC	0.1uF		50V	(C545:AEP/C745)
C601	1-161-494-00	CERAMIC	0.022uF		25V	
C602	1-126-937-11	ELECT	4700uF	20%	16V	
C603	1-124-556-11	ELECT	2200uF	20%	16V	
C604	1-126-301-11	ELECT	1uF	20%	50V	
C605	1-126-163-11	ELECT	4.7uF	20%	50V	
C607	1-126-101-11	ELECT	100uF	20%	16V	
C608	1-126-101-11	ELECT	100uF	20%	16V	
C609	1-124-572-11	ELECT	100uF	20%	63V	
C610	1-124-261-00	ELECT	10uF	20%	50V	
		< CONNECTOR >				
CN301	1-750-230-11	CONNECTOR, FFC/FPC 13P				(C545:AEP/C745)
CN301	1-750-737-11	CONNECTOR, FFC/FPC 5P				(C545:US, CND, E, AUS)
CN401	1-764-004-11	CONNECTOR, FFC/FPC 23P				
CN501	1-750-233-11	CONNECTOR, FFC/FPC 16P				
CN502	1-750-228-11	CONNECTOR, FFC/FPC 10P				(C545)
CN502	1-750-231-11	CONNECTOR, FFC/FPC 14P				(C745)
CN504	1-750-223-11	CONNECTOR, FFC/FPC 6P				
* CN601	1-573-047-11	PIN, CONNECTOR (PC BOARD) 2P				
		< DIODE >				
D301	8-719-987-63	DIODE	1N4148M			
D531	8-719-987-63	DIODE	1N4148M			
D551	8-719-109-92	DIODE	RD6.2ES-B1			
D601	8-719-200-82	DIODE	11ES2			
D602	8-719-200-82	DIODE	11ES2			
D603	8-719-200-82	DIODE	11ES2			
D604	8-719-200-82	DIODE	11ES2			
D605	8-719-200-82	DIODE	11ES2			
D606	8-719-121-24	DIODE	RD9.1ES-L			
		< IC >				
IC301	8-752-359-50	IC	CXD2564AM			(C745)
IC301	8-752-360-60	IC	CXD2565M-1			(C545)
IC302	8-759-160-55	IC	LA9216			
IC351	8-759-167-88	IC	NJM4565D			
IC401	8-759-265-47	IC	CXD8458Q			(C745)
IC403	8-759-247-12	IC	MSM51C464A-70RS			(C745)
IC405	8-749-921-12	IC	GP1F32T			(DIGITAL OUT OPTICAL)
IC501	8-752-856-06	IC	CXP84124-014Q			(C545)
IC501	8-752-856-07	IC	CXP84332-004Q			(C745)
IC531	8-759-512-81	IC	LH5160N-10L			
IC551	8-759-172-31	IC	BA6191			
IC561	8-759-803-42	IC	LA6500-FA			(C545:AEP/C745)
IC601	8-759-274-37	IC	BA3963			
IC602	8-759-605-00	IC	M5F78M07L			

MAIN

Ref. No.	Part No.	Description	Remark
IC603	8-759-633-42	IC M5293L	
		< JACK >	
J301	1-569-443-31	JACK, PIN 4P (LINE OUT)	(C545:AEP/C745)
J301	1-750-679-11	JACK, PIN 2P (LINE OUT)	(C545:US, CND, E, AUS)
		< COIL >	
L301	1-412-297-11	INDUCTOR 3.3uH	
L302	1-412-473-21	INDUCTOR 0uH	
L303	1-412-473-21	INDUCTOR 0uH	
L304	1-412-297-11	INDUCTOR 3.3uH	(C545)
L305	1-412-297-11	INDUCTOR 3.3uH	(C745)
L306	1-412-473-21	INDUCTOR 0uH	
L401	1-412-297-11	INDUCTOR 3.3uH	(C745)
L402	1-412-297-11	INDUCTOR 3.3uH	(C745)
L403	1-412-297-11	INDUCTOR 3.3uH	
		< TRANSISTOR >	
Q101	8-729-231-55	TRANSISTOR 2SC2878-AB	(C745)
Q102	8-729-231-55	TRANSISTOR 2SC2878-AB	(C745)
Q201	8-729-231-55	TRANSISTOR 2SC2878-AB	(C745)
Q202	8-729-231-55	TRANSISTOR 2SC2878-AB	(C745)
Q301	8-729-900-89	TRANSISTOR DTC144ES	
Q302	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q502	8-729-900-65	TRANSISTOR DTA144ES	(C745)
Q503	8-729-900-65	TRANSISTOR DTA144ES	(C745)
Q504	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-900-61	TRANSISTOR DTA114ES	
Q603	8-729-900-80	TRANSISTOR DTC114ES	
Q604	8-729-900-89	TRANSISTOR DTC144ES	
Q605	8-729-900-61	TRANSISTOR DTA114ES	
		< RESISTOR >	
R101	1-249-436-11	CARBON 39K 5% 1/4W	
R102	1-249-436-11	CARBON 39K 5% 1/4W	
R103	1-249-431-11	CARBON 15K 5% 1/4W	
R104	1-249-431-11	CARBON 15K 5% 1/4W	
R105	1-249-437-11	CARBON 47K 5% 1/4W	(C545)
R105	1-249-438-11	CARBON 56K 5% 1/4W	(C745)
R106	1-249-437-11	CARBON 47K 5% 1/4W	(C545)
R106	1-249-438-11	CARBON 56K 5% 1/4W	(C745)
R107	1-249-429-11	CARBON 10K 5% 1/4W	
R108	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R109	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R110	1-249-421-11	CARBON 2.2K 5% 1/4W F	(C745)
R111	1-249-437-11	CARBON 47K 5% 1/4W	(C745)
R112	1-249-424-11	CARBON 3.9K 5% 1/4W F	(C745)
R113	1-249-425-11	CARBON 4.7K 5% 1/4W F	(C745)

Ref. No.	Part No.	Description	Remark
R114	1-249-419-11	CARBON 1.5K 5% 1/4W F	(C745)
R115	1-249-425-11	CARBON 4.7K 5% 1/4W F	(C745)
R116	1-249-417-11	CARBON 1K 5% 1/4W F	(C545:AEP/C745)
R117	1-249-417-11	CARBON 1K 5% 1/4W F	
R118	1-249-429-11	CARBON 10K 5% 1/4W	(C545)
R151	1-249-435-11	CARBON 33K 5% 1/4W	(C545:AEP/C745)
R152	1-249-432-11	CARBON 18K 5% 1/4W	(C545:AEP/C745)
R153	1-249-422-11	CARBON 2.7K 5% 1/4W F	(C545:AEP/C745)
R154	1-249-429-11	CARBON 10K 5% 1/4W	(C545:AEP/C745)
R155	1-249-402-11	CARBON 56 5% 1/4W F	(C545:AEP/C745)
R201	1-249-436-11	CARBON 39K 5% 1/4W	
R202	1-249-436-11	CARBON 39K 5% 1/4W	
R203	1-249-431-11	CARBON 15K 5% 1/4W	
R204	1-249-431-11	CARBON 15K 5% 1/4W	
R205	1-249-437-11	CARBON 47K 5% 1/4W	(C545)
R206	1-249-437-11	CARBON 47K 5% 1/4W	(C545)
R207	1-249-429-11	CARBON 10K 5% 1/4W	
R208	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R209	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R205	1-249-438-11	CARBON 56K 5% 1/4W	(C745)
R206	1-249-438-11	CARBON 56K 5% 1/4W	(C745)
R210	1-249-421-11	CARBON 2.2K 5% 1/4W F	(C745)
R211	1-249-437-11	CARBON 47K 5% 1/4W	(C745)
R212	1-249-424-11	CARBON 3.9K 5% 1/4W F	(C745)
R213	1-249-425-11	CARBON 4.7K 5% 1/4W F	(C745)
R214	1-249-419-11	CARBON 1.5K 5% 1/4W F	(C745)
R215	1-249-425-11	CARBON 4.7K 5% 1/4W F	(C745)
R216	1-249-417-11	CARBON 1K 5% 1/4W F	(C545:AEP/C745)
R217	1-249-417-11	CARBON 1K 5% 1/4W F	
R218	1-249-429-11	CARBON 10K 5% 1/4W	(C545)
R251	1-249-435-11	CARBON 33K 5% 1/4W	(C545:AEP/C745)
R252	1-249-432-11	CARBON 18K 5% 1/4W	(C545:AEP/C745)
R253	1-249-422-11	CARBON 2.7K 5% 1/4W F	(C545:AEP/C745)
R254	1-249-429-11	CARBON 10K 5% 1/4W	(C545:AEP/C745)
R255	1-249-402-11	CARBON 56 5% 1/4W F	(C545:AEP/C745)
R301	1-249-417-11	CARBON 1K 5% 1/4W F	
R302	1-247-807-31	CARBON 100 5% 1/4W F	
R303	1-247-903-00	CARBON 1M 5% 1/4W	(C745)
R303	1-249-425-11	CARBON 4.7K 5% 1/4W F	(C545)
R304	1-249-413-11	CARBON 470 5% 1/4W F	(C745)

Ref. No.	Part No.	Description				Remark
R305	1-249-441-11	CARBON	100K	5%	1/4W	(C745)
R306	1-249-441-11	CARBON	100K	5%	1/4W	(C745)
R307	1-249-429-11	CARBON	10K	5%	1/4W	
R308	1-249-433-11	CARBON	22K	5%	1/4W	
R309	1-247-807-31	CARBON	100	5%	1/4W	(C745)
R309	1-249-409-11	CARBON	220	5%	1/4W	F (C545)
R310	1-249-429-11	CARBON	10K	5%	1/4W	
R351	1-247-807-31	CARBON	100	5%	1/4W	
R352	1-247-807-31	CARBON	100	5%	1/4W	
R402	1-249-417-11	CARBON	1K	5%	1/4W	F (C745)
R403	1-247-807-31	CARBON	100	5%	1/4W	(C745)
R407	1-249-417-11	CARBON	1K	5%	1/4W	F (C745)
R408	1-249-417-11	CARBON	1K	5%	1/4W	F (C745)
R409	1-249-417-11	CARBON	1K	5%	1/4W	F (C745)
R501	1-247-807-31	CARBON	100	5%	1/4W	
R502	1-247-807-31	CARBON	100	5%	1/4W	
R503	1-247-807-31	CARBON	100	5%	1/4W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	F
R509	1-249-417-11	CARBON	1K	5%	1/4W	F
R510	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R511	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R512	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R513	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R514	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R515	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R521	1-249-413-11	CARBON	470	5%	1/4W	F (C545:AEP/C745)
R522	1-249-430-11	CARBON	12K	5%	1/4W	
R523	1-249-429-11	CARBON	10K	5%	1/4W	
R524	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R525	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R526	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R531	1-249-399-11	CARBON	33	5%	1/4W	F
R532	1-249-417-11	CARBON	1K	5%	1/4W	F
R533	1-249-429-11	CARBON	10K	5%	1/4W	
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R543	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R544	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R551	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R552	1-247-840-00	CARBON	2.4K	5%	1/4W	
R553	1-247-828-11	CARBON	750	5%	1/4W	
R554	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R555	1-249-439-11	CARBON	68K	5%	1/4W	
R556	1-249-439-11	CARBON	68K	5%	1/4W	
R557	1-249-439-11	CARBON	68K	5%	1/4W	
R558	1-249-439-11	CARBON	68K	5%	1/4W	
R559	1-249-417-11	CARBON	1K	5%	1/4W	F
R561	1-249-441-11	CARBON	100K	5%	1/4W	(C545:AEP/C745)
R562	1-249-441-11	CARBON	100K	5%	1/4W	(C545:AEP/C745)
R563	1-249-441-11	CARBON	100K	5%	1/4W	(C545:AEP/C745)
R564	1-249-441-11	CARBON	100K	5%	1/4W	(C545:AEP/C745)
R565	1-249-393-11	CARBON	10	5%	1/4W	F (C545:AEP/C745)
R601	1-249-435-11	CARBON	33K	5%	1/4W	
R602	1-249-429-11	CARBON	10K	5%	1/4W	
R603	1-249-438-11	CARBON	56K	5%	1/4W	
R604	1-247-807-31	CARBON	100	5%	1/4W	
R605	1-247-807-31	CARBON	100	5%	1/4W	
R606	1-249-429-11	CARBON	10K	5%	1/4W	

< SWITCH >

⚠S601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (C545:E)

< VIBRATOR >

X301	1-579-314-11	VIBRATOR, CRYSTAL (22MHz) (C745)
X301	1-579-834-11	VIBRATOR, CRYSTAL (33.8MHz) (C545)
X501	1-579-175-11	VIBRATOR, CERAMIC (10MHz)

****

*	1-652-155-11	POWER SW BOARD

****

< CONNECTOR >

CN821	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P

< RESISTOR >

R711	1-249-418-11	CARBON	1.2K	5%	1/4W F
R712	1-249-419-11	CARBON	1.5K	5%	1/4W F
R713	1-249-421-11	CARBON	2.2K	5%	1/4W F
R714	1-249-423-11	CARBON	3.3K	5%	1/4W F
R715	1-249-426-11	CARBON	5.6K	5%	1/4W
R716	1-249-430-11	CARBON	12K	5%	1/4W
R717	1-249-435-11	CARBON	33K	5%	1/4W
R726	1-249-430-11	CARBON	12K	5%	1/4W
R727	1-249-435-11	CARBON	33K	5%	1/4W

< SWITCH >

S711	1-554-303-21	SWITCH, TACTILE (DISC 5)
S712	1-554-303-21	SWITCH, TACTILE (DISC 4)
S713	1-554-303-21	SWITCH, TACTILE (DISC 3)
S714	1-554-303-21	SWITCH, TACTILE (DISC 2)
S715	1-554-303-21	SWITCH, TACTILE (CONTINUE)
S716	1-554-303-21	SWITCH, TACTILE (SHUFFLE)
S717	1-554-303-21	SWITCH, TACTILE (PROGRAM)
S718	1-554-303-21	SWITCH, TACTILE (REPEAT)
S727	1-554-303-21	SWITCH, TACTILE (DISC 1)
S821	1-572-714-11	SWITCH, PUSH (POWER)

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

SENSOR | TABLE MOTOR | TIMER SW

Ref.No.	Part No.	Description	Remark
*	1-647-362-11	SENSOR BOARD	
		**********	
		< CONNECTOR >	
CN801	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P	
CN802	1-750-243-11	SOCKET, CONNECTOR 6P	
		< DIODE >	
D801	8-749-924-18	DIODE RPI-1391	
D802	8-749-924-30	DIODE GP2S28	
		< RESISTOR >	
R801	1-249-416-11	CARBON 820 5% 1/4W F	
R802	1-249-406-11	CARBON 120 5% 1/4W F	
*	1-647-364-11	TABLE MOTOR BOARD	
		**********	
		< MOTOR >	
M801	A-4660-322-A	MOTOR ASSY, ROTARY (TABLE)	
*	1-652-154-11	TIMER SW BOARD	
		**********	
		< SWITCH >	
S728	1-570-157-51	SWITCH, SLIDE (TIMER)	
		MISCELLANEOUS	
		**********	
12	1-765-264-11	WIRE (FLAT TYPE) (16 CORE)	
14	1-765-250-11	WIRE (FLAT TYPE) (14 CORE) (C745)	
16	1-765-249-11	WIRE (FLAT TYPE) (13 CORE) (C545:AEP/C745)	
⚠59	1-575-651-21	CORD, POWER (C545:AEP/C745:AEP)	
⚠60	1-696-845-11	CORD, POWER (C545:AUS)	
⚠61	1-569-007-11	ADAPTER, CONVERSION 2P (C545:E)	
⚠62	1-590-836-11	CORD, POWER (C545:US, CND/C745:US, CND)	
⚠62	1-696-027-11	CORD, POWER (C545:E)	
75	1-751-052-11	WIRE (FLAT TYPE) (6 CORE)	
107	1-765-265-11	WIRE (FLAT TYPE) (23 CORE)	
* 109	1-452-538-11	MAGNET	
⚠151	8-848-144-11	OPTICAL PICK-UP BLOCK (KSS-240A)	
⚠151	8-848-281-11	OPTICAL PICK-UP BLOCK (KSS-390A)	
152	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
152	1-647-341-11	FLEXIBLE BOARD (for KSS-390A)	
FL801	1-517-278-11	INDICATOR TUBE, FLUORESCENT	
M101	X-4917-523-3	BASE (OUT SERT) ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M801	A-4660-322-A	MOTOR ASSY, ROTARY (TABLE)	
M802	A-4604-834-A	MOTOR ASSY, LOADING	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
⚠S601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (C545:E)	
S901	1-466-996-11	ENCODER, ROTARY	
⚠T601	1-423-553-11	TRANSFORMER, POWER	(C545:US, CND/C745:US, CND)
⚠T601	1-423-554-11	TRANSFORMER, POWER	(C545:AEP, AUS/C745:AEP)
⚠T601	1-423-555-11	TRANSFORMER, POWER (C545:E)	
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-669-11	REMOTE COMMANDER (RM-D745) (C745)	
	1-467-670-11	REMOTE COMMANDER (RM-D645) (C545:AEP)	
	1-467-671-11	REMOTE COMMANDER (RM-D545)	(C545:EXCEPT AEP)
	1-558-271-11	CORD, CONNECTION (AUDIO) (108cm)	
	3-707-584-21	COVER, BATTERY (for REMOTE COMMANDER)	
	3-758-411-11	MANUAL, INSTRUCTION	(ENGLISH, FRENCH, SPANISH, SWEDISH) (C545:CND, AEP, E/C745:CND, AEP)
	3-758-411-21	MANUAL, INSTRUCTION (ENGLISH)	(C545:US, AUS/C745:US)
	3-758-411-41	MANUAL, INSTRUCTION	(GERMAN, DUTCH, ITALIAN, PORTUGUESE) (C545:AEP/C745:AEP)
*	4-965-971-01	CUSHION (FRONT)	
*	4-965-972-01	CUSHION (REAR)	
*	4-966-433-01	INDIVIDUAL CARTON (C545)	
*	4-966-434-01	INDIVIDUAL CARTON (C745)	
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-134-19	SCREW +PTPWH 2.6X8 (TYPE2)	
#5	7-685-648-79	SCREW (M3X12), TAPPING	
#6	7-621-255-15	SCREW +P 2X3	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Sony Corporation
Consumer A&V Products Company
Home A&V Division

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CDP-C545/C745

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
CDP-545/C745
E Model
Australian Model
CDP-C545

SUPPLEMENT-1

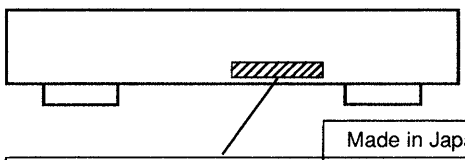
File this supplement with the service manual.

Subject : 1. Service parts changed (For Japan production)
2. Circuit changed (For Japan production)
3. Malaysia production model
4. Addition of the BU-5BD20 (Malaysia production of CDP-C545 only)

(ENG-95016)

How to identify production which made in Malaysia.

— BACK PANEL —



	Made in Japan	Made in Malaysia
CDP-C545 (US model)	4-965-464-3□	4-975-544-1□
CDP-C545 (Canadian model)	4-965-464-3□	4-975-544-2□
CDP-C545 (AEP model)	4-965-464-2□	4-975-544-3□
CDP-C545 (E model)	4-965-464-4□	4-975-544-4□
CDP-C545 (Australian model)	4-965-464-5□	4-975-544-5□
CDP-C745 (US model)	4-965-464-0□	4-975-544-6□
CDP-C745 (Canadian model)	4-965-464-0□	————
CDP-C745 (AEP model)	4-965-464-1□	————

- AEP and Canadian model of CDP-C745 are produced at Japan only. Therfore, these informations are not related for AEP and Canadian mode of CDP-C745.

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  F : nonflammable
- For detailed Singapore and Malaysia model, refer to AEP model.
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviations
  CND : Canadian model
  AUS : Australian model

1. SERVICE PARTS CHANGED (For Japan production)

Change of parts for Japan production. (Exploded views)

Page	FORMER			NEW		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
42	63	3-704-515-21	SCREW (BV/RING)			———————
	* 64	4-949-235-01	HOOK			———————
52		1-467-669-11	REMOTE COMMANDER (RM-D745) (C745)		1-467-669-21	REMOTE COMMANDER (RM-D745) (C745)
		1-467-670-11	REMOTE COMMANDER (RM-D645) (C545:AEP)		1-467-670-21	REMOTE COMMANDER (RM-D645) (C545:AEP)
		1-467-671-11	REMOTE COMMANDER (RM-D545) (C545:EXCEPT AEP)		1-467-671-21	REMOTE COMMANDER (RM-D545) (C545:EXCEPT AEP)

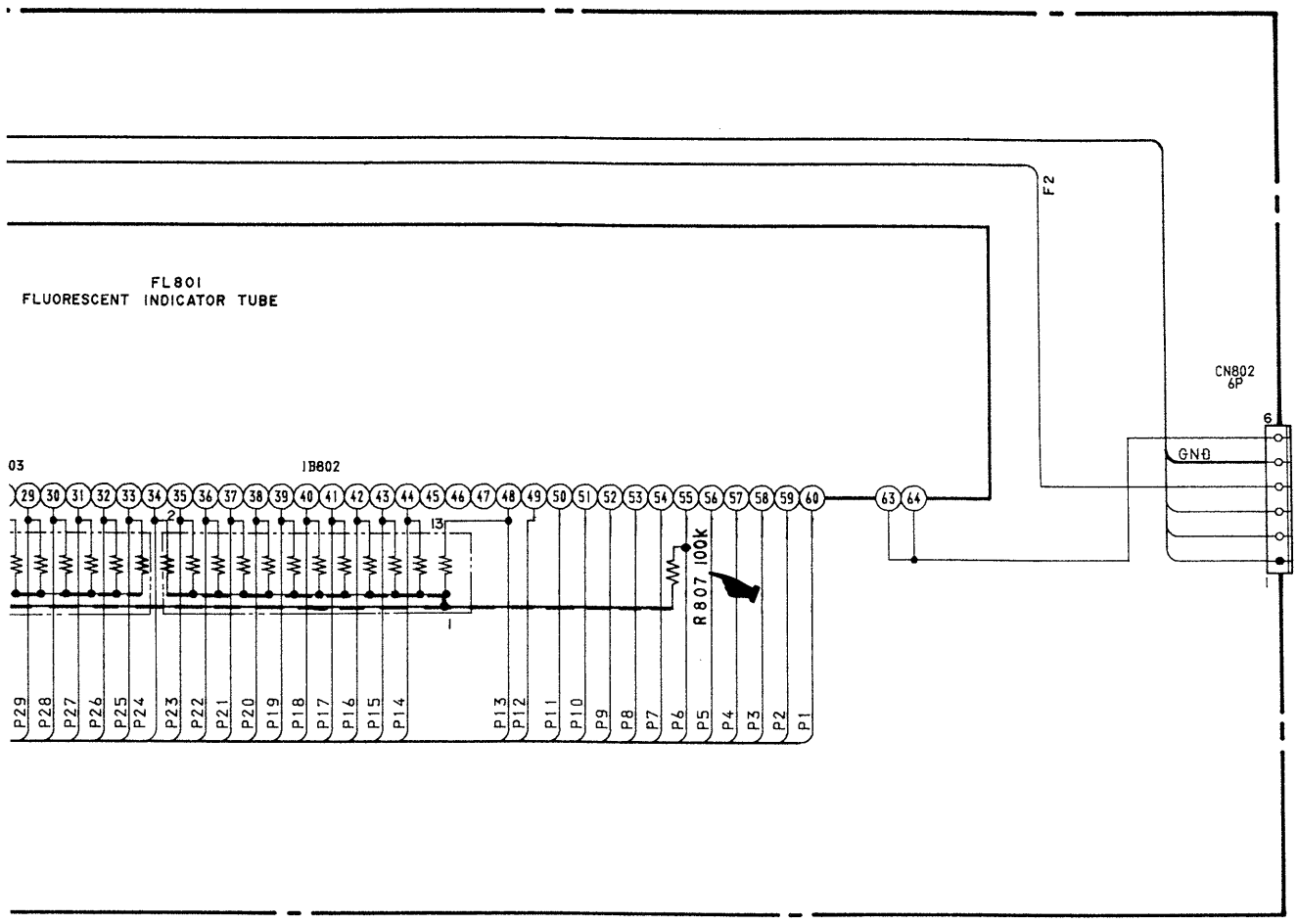
2. Circuit changed (For Japan production)

Change of parts for Japan production. (Complete board)

Page	FORMER	NEW
	Ref.No. Part No. Description	Ref.No. Part No. Description
45	** 10 KEY BOARD **	** 10 KEY BOARD **
		* 3-362-478-21 HOLDER (T), LED
	D841 8-719-310-71 DIODE SEL2510C-D (A)	D841 8-719-303-02 DIODE SEL2510C-D
	D842 8-719-310-71 DIODE SEL2510C-D (A)	D842 8-719-303-02 DIODE SEL2510C-D
	D843 8-719-310-71 DIODE SEL2510C-D (A)	D843 8-719-303-02 DIODE SEL2510C-D
	D844 8-719-310-71 DIODE SEL2510C-D (A)	D844 8-719-303-02 DIODE SEL2510C-D
47	** DISPLAY BOARD **	** DISPLAY BOARD **
	D802 8-719-303-17 DIODE SEL2810A-D (▮▮)	D802 8-719-301-52 LED SEL2810A-C (▮▮)
	IB801 1-232-817-11 COMPOSITION CIRCUIT BLOCK	
	IB804 1-232-817-11 COMPOSITION CIRCUIT BLOCK	
	IC802 8-759-823-57 IC LC75711E	IC802 8-759-337-52 IC LC75721E
	R802 1-249-409-11 CARBON 220 5% 1/4W F	R802 1-247-815-91 CARBON 220 5% 1/4W F
		R807 1-249-441-11 CARBON 100K 5% 1/4W F
48	** HEADPHONE BOARD ** (C545:AEP/C745)	** HEADPHONE BOARD ** (C545:AEP/C745)
	C353 1-164-159-21 CERAMIC 0.1uF 50V	C353 1-164-159-21 CERAMIC 0.1uF 50V
	** HEADPHONE BOARD ** (C545:US, CND, E, AUS)	** HEADPHONE BOARD ** (C545:US, CND, E, AUS)
	C901 1-164-159-11 CERAMIC 0.1uF 50V	C901 1-162-290-31 CERAMIC 470PF 10% 50V
	C902 1-162-290-31 CERAMIC 470PF 10% 50V	C902 1-162-290-31 CERAMIC 470PF 10% 50V
	C903 1-162-290-31 CERAMIC 470PF 10% 50V	C903 1-164-159-11 CERAMIC 0.1uF 50V
49	** MAIN BOARD **	** MAIN BOARD **
	C401 1-126-022-11 ELECT 47uF 20% 16V (C545:US, CND, AUS)	C401 1-126-786-11 ELECT 47uF 20% 16V
	C401 1-126-786-11 ELECT 47uF 20% 16V (C545:E/C745)	
	C531 1-104-905-11 CAP, DOUBLE LAYERS 0.22F (C545:AEP, E)	C531 1-104-905-11 CAP, DOUBLE LAYERS 0.22F
	C531 1-125-705-11 CAP, DOUBLE LAYERS 0.22F (C545:US, CND, AUS/C745)	
	IC531 8-759-512-81 IC LH5160-10L	IC531 8-759-336-84 IC LC3564SM-10
50	J301 1-750-679-11 JACK, PIN 2P (LINE OUT) (C545:US, CND, E, AUS)	J301 1-750-679-11 JACK, PIN 2P (LINE OUT) (C545:E)
		J301 1-750-679-21 JACK, PIN 2P (LINE OUT) (C545:US, CND, AUS)
	L301 1-412-297-11 INDUCTOR 3.3uH	L301 1-410-503-11 INDUCTOR 3.3uH
	L304 1-412-297-11 INDUCTOR 3.3uH (C545)	L304 1-410-503-11 INDUCTOR 3.3uH (C545)
	L403 1-412-297-11 INDUCTOR 3.3uH	L403 1-410-503-11 INDUCTOR 3.3uH
51	R308 1-249-433-11 CARBON 22K 5% 1/4W	R308 1-247-863-91 CARBON 22K 5% 1/4W
	R309 1-249-409-11 CARBON 220 5% 1/4W(C545)	R309 1-247-815-91 CARBON 220 5% 1/4W(C545)
52	** SENSOR BOARD **	** SENSOR BOARD **
	R802 1-249-406-11 CARBON 120 5% 1/4W F	R802 1-247-815-91 CARBON 220 5% 1/4W

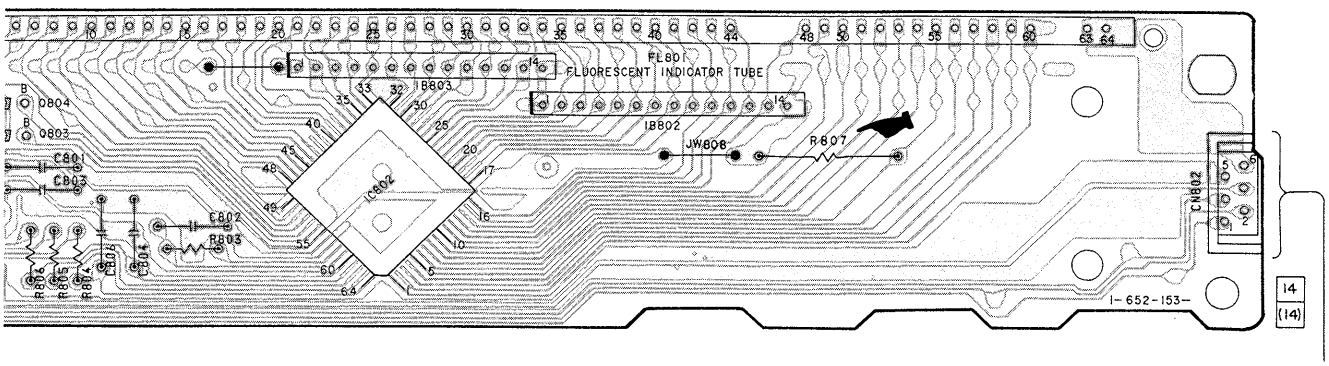
SCHEMATIC DIAGRAM (See page 31)
▬ : Added portion
Location : C–13 to C–20

[DISPLAY BOARD]



PRINTED WIRING BOARD (See page 34, 35)
Location : B–8 to B–16

[DISPLAY BOARD]



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

3. Malaysia production model

- There is no changeability between the following boards which made in Japan and Malaysia.
  Referring to "How to identify production ..." (page 1), use the appropriate boards.
  Therefore, see the service manual for the information which is not contained in this service manual.

Difference between productions made in Japan and Malaysia

BOARD	Made in Japan	Made in Malaysia
10 KEY	* A-4673-093-A (C745:US) * A-4673-097-A (C545:US, CND, E, AUS) * A-4673-100-A (C545:AEP)	* A-4673-601-A (C745:US) * A-4673-614-A (C545:US, CND, E, AUS) * A-4673-612-A (C545:AEP)
BD	* A-4649-432-A (C545) (for KSS-240A)	* A-4673-510-A (C545) (for KSS-213B/S-N)
DISPLAY	* A-4673-092-A (C545:US, CND, AEP, E, AUS/C745:US)	* A-4673-600-A (C545:US, CND, AEP, E, AUS/C745:US)
MAIN	* A-4673-095-A (C745:US) * A-4673-099-A (C545:US, CND, E, AUS) * A-4673-101-A (C545:AEP) * A-4673-102-A (C545:E)	* A-4673-604-A (C745:US) * A-4673-616-A (C545:US, CND, E, AUS) * A-4673-613-A (C545:AEP) * A-4673-617-A (C545:E)

EXPLODED VIEWS

- There followings shows differences between productions made in Japan and malaysia.
  Referring to "How to identify production ..." (page 1), use the appropriate parts.

Page	Made in Japan			Made in Malaysia		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
41	1	4-964-694-01	PANEL, LOADING	1	4-964-694-11	PANEL, LOADING
	4	X-4944-756-1	PANEL ASSY, FRONT (C745:US)	4	X-4946-257-1	PANEL ASSY, FRONT (C745:US)
	4	X-4944-758-1	PANEL ASSY, FRONT (C545:AEP)	4	X-4946-256-1	PANEL ASSY, FRONT (C545:AEP)
	4	X-4944-759-1	PANEL ASSY, FRONT (C545:US, CND)	4	X-4946-255-1	PANEL ASSY, FRONT (C545:US, CND)
	4	X-4944-760-1	PANEL ASSY, FRONT (C545:E, AUS)	4	X-4946-259-1	PANEL ASSY, FRONT (C545:E, AUS)
	5	4-922-921-01	BUTTON (POWER)	5	4-922-921-31	BUTTON (POWER)
	6	4-922-518-01	KNOB (TIMER)	6	4-922-518-71	KNOB (TIMER)
	* 11	A-4673-092-A	DISPLAY BOARD, COMPLETE	* 11	A-4673-600-A	DISPLAY BOARD, COMPLETE
	* 13	A-4673-093-A	10 KEY BOARD, COMPLETE (C745:US)	* 13	A-4673-601-A	10 KEY BOARD, COMPLETE (C745:US)
	* 13	A-4673-097-A	10 KEY BOARD, COMPLETE (C545:EXCEPT AEP)	* 13	A-4673-614-A	10 KEY BOARD, COMPLETE (C545:EXCEPT AEP)
	* 13	A-4673-100-A	10 KEY BOARD, COMPLETE (C545:AEP)	* 13	A-4673-612-A	10 KEY BOARD, COMPLETE (C545:AEP)
	17	4-923-836-11	CUSHION	17	4-923-836-21	CUSHION
	18	X-4942-198-1	FOOT ASSY (US, CND)	18	4-937-929-31	FOOT (DIA. 58) (US, CND)
	18	X-4942-197-1	FOOT ASSY (AEP, E, AUS)	18	X-4942-199-1	FOOT ASSY (AEP, E, AUS)
42	51	4-957-299-01	TABLE (B), DISK	* 51	4-957-299-11	TABLE (B), DISK
	55	3-325-697-01	WASHER	55	3-325-697-21	WASHER
	57	X-4943-477-1	BRACKET (RM) ASSY	57	X-4944-128-1	BRACKET (RM) ASSY
	58	4-965-659-01	SCREW (+B 2X2.2)	58	7-621-772-00	SCREW +B 2X3
	⚠62	1-590-836-11	CORD, POWER (US, CND)	⚠62	1-575-042-21	CORD, POWER (US, CND)
			----------	* 64	4-949-235-01	HOOK
	* 66	4-965-464-01	PANEL, BACK (C745:US)	* 66	4-975-544-61	PANEL, BACK (C745:US)
	* 66	4-965-464-21	PANEL, BACK (C545:AEP)	* 66	4-975-544-31	PANEL, BACK (C545:AEP)
	* 66	4-965-464-31	PANEL, BACK (C545:US)	* 66	4-975-544-11	PANEL, BACK (C545:US)
	* 66	4-965-464-31	PANEL, BACK (C545:CND)	* 66	4-975-544-21	PANEL, BACK (C545:CND)
	* 66	4-965-464-41	PANEL, BACK (C545:E)	* 66	4-975-544-41	PANEL, BACK (C545:E)
	* 66	4-965-464-51	PANEL, BACK (C545:AUS)	* 66	4-975-544-51	PANEL, BACK (C545:AUS)
	68	4-957-868-01	SCREW (+PTPWH 2.6X20)	68	4-957-868-11	SCREW (+PTPWH 2.6X20)
	69	4-957-291-01	LEVER (RACK RELEASE)	69	4-957-291-11	LEVER (RACK RELEASE)
	70	4-957-293-01	SPRING (RACK RELEASE)	70	4-957-293-11	SPRING (RACK RELEASE)
	71	4-957-294-01	SPRING (D.T), TENSION	71	4-957-294-11	SPRING (D.T), TENSION
	72	4-957-292-01	SLIDER (RACK)	72	4-957-292-11	SLIDER (RACK)
	76	X-4943-480-1	BRACKET (ROLLER D) ASSY	76	X-4944-129-1	BRACKET (ROLLER D) ASSY
	M801	A-4660-322-A	MOTOR ASSY, ROTARY	M801	A-4660-525-A	MOTOR ASSY, ROTARY

Page	Made in Japan			Made in Malaysia		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
43	102	4-957-283-01	WASHER (5), STOPPER	102	4-957-283-11	WASHER (5), STOPPER
	* 108	4-957-289-01	HOLDER (BU)	* 108	4-957-289-12	HOLDER (BU)
	110	X-4943-478-1	BRACKET (GEAR) ASSY	110	X-4944-127-1	BRACKET (GEAR) ASSY
	111	4-957-281-01	SPRING (LOCK LEVER)	111	4-957-281-11	SPRING (LOCK LEVER)
	112	4-957-279-01	LEVER, LOCK	112	4-957-279-11	LEVER, LOCK
	115	4-957-285-01	LEVER, SET	115	4-957-285-11	LEVER, SET
	* 120	A-4673-095-A	MAIN BOARD, COMPLETE (C745:US)	* 120	A-4673-604-A	MAIN BOARD, COMPLETE (C745:US)
	* 120	A-4673-099-A	MAIN BOARD, COMPLETE (C545:US, CND, AUS)	* 120	A-4673-616-A	MAIN BOARD, COMPLETE (C545:US, CND, AUS)
	* 120	A-4673-101-A	MAIN BOARD, COMPLETE (C545AEP)	* 120	A-4673-613-A	MAIN BOARD, COMPLETE (C545:AEP)
	* 120	A-4673-102-A	MAIN BOARD, COMPLETE (C545:E)	* 120	A-4673-617-A	MAIN BOARD, COMPLETE (C545:E)
	* 122	4-957-556-01	SHEET, INSULATING	* 122	4-957-556-11	SHEET, INSULATING
	* 123	4-957-555-01	SHEET, INSULATING	* 123	4-957-555-11	SHEET, INSULATING
	M802	A-4604-834-A	MOTOR ASSY, LOADING	M802	A-4604-847-A	MOTOR ASSY, LOADING
	⚠T601	1-423-553-11	TRANSFORMER, POWER	⚠T601	1-423-872-11	TRANSFORMER, POWER
	⚠T601	1-423-554-11	TRANSFORMER, POWER	⚠T601	1-423-992-11	TRANSFORMER, POWER
	⚠T601	1-423-555-11	TRANSFORMER, POWER	⚠T601	1-423-993-11	TRANSFORMER, POWER

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

ELECTRICAL PARTS LIST

Page	Made in Japan	Made in Malaysia
	Ref.No. Part No. Description	Ref.No. Part No. Description
45	* A-4673-093-A 10 KEY BOARD, COMPLETE (C745:US) ********** * A-4673-097-A 10 KEY BOARD, COMPLETE ********** (C545:US, CND, E, AUS) * A-4673-100-A 10 KEY BOARD, COMPLETE ********** (C545:AEP) CN841 1-750-228-11 CONNECTOR, FFC/FPC 10P CN841 1-750-231-11 CONNECTOR, FFC/FPC 14P	* A-4673-601-A 10 KEY BOARD, COMPLETE (C745:US) ********** * A-4673-614-A 10 KEY BOARD, COMPLETE ********** (C545:US, CND, E, AUS) * A-4673-612-A 10 KEY BOARD, COMPLETE ********** (C545:AEP) CN841 1-750-451-11 CONNECTOR, FFC/FPC 10P * CN841 1-750-455-11 CONNECTOR, FFC/FPC 14P
46	* A-4673-092-A DISPLAY BOARD, COMPLETE ********** (C545:US, CND, AEP, E, AUS/C745:US)	* A-4673-600-A DISPLAY BOARD, COMPLETE ********** (C545:US, CND, AEP, E, AUS/C745:US)
47	** DSP BOARD ** R861 1-247-815-91 CARBON 220 5% 1/4W R862 1-247-815-91 CARBON 220 5% 1/4W	** DSP BOARD ** R861 1-249-409-11 CARBON 220 5% 1/4W F R862 1-249-409-11 CARBON 220 5% 1/4W F
48	** HEADPHONE BOARD ** CN351 1-750-230-11 CONNECTOR, FFC/FPC 13P CN901 1-750-737-11 CONNECTOR, FFC/FPC 5P * A-4673-095-A MAIN BOARD, COMPLETE (C745:US) ********** * A-4673-099-A MAIN BOARD, COMPLETE ********** (C545:US, CND, E, AUS) * A-4673-101-A MAIN BOARD, COMPLETE (C545:AEP) ********** * A-4673-102-A MAIN BOARD, COMPLETE (C545:E) **********	** HEADPHONE BOARD ** * CN351 1-568-856-11 SOCKET, CONNECTOR 13P CN901 1-750-446-11 CONNECTOR, FFC/FPC 5P * A-4673-604-A MAIN BOARD, COMPLETE (C745:US) ********** * A-4673-616-A MAIN BOARD, COMPLETE ********** (C545:US, CND, E, AUS) * A-4673-613-A MAIN BOARD, COMPLETE (C545:AEP) ********** * A-4673-617-A MAIN BOARD, COMPLETE (C545:E) **********
49	C413 1-126-022-11 ELECT 47uF 20% 16V C415 1-164-159-21 CERAMIC 0.1uF 50V C418 1-164-159-21 CERAMIC 0.1uF 50V CN301 1-750-230-11 CONNECTOR, FFC/FPC 13P (C545:AEP/C745:US) CN401 1-764-004-11 CONNECTOR, FFC/FPC 23P CN501 1-750-233-11 CONNECTOR, FFC/FPC 16P CN504 1-750-223-11 CONNECTOR, FFC/FPC 6P D601 8-719-200-82 DIODE 11ES2 D602 8-719-200-82 DIODE 11ES2 D603 8-719-200-82 DIODE 11ES2 D604 8-719-200-82 DIODE 11ES2 D605 8-719-200-82 DIODE 11ES2 D606 8-719-121-24 DIODE RD9.1ES-L IC501 8-752-856-06 IC CXP84124-014Q	———————————— ———————————— ———————————— CN301 1-750-745-11 CONNECTOR, FFC/FPC 13P (C545:AEP/C745:US) * CN401 1-568-865-11 SOCKET, CONNECTOR 23P ———————————— * CN504 1-568-825-11 SOCKET, CONNECTOR 6P D601 8-719-024-99 DIODE 11ES2-NTA2B D602 8-719-024-99 DIODE 11ES2-NTA2B D603 8-719-024-99 DIODE 11ES2-NTA2B D604 8-719-024-99 DIODE 11ES2-NTA2B D605 8-719-024-99 DIODE 11ES2-NTA2B D606 8-719-110-13 DIODE RD9.1ESB2 IC501 8-752-846-82 IC CXP84124-032Q

Page	Made in Japan			Made in Malaysia		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
52	*	1-647-364-11	TABLE MOTOR BOARD	*	1-650-082-11	TABLE MOTOR BOARD
			ACCESSORIES & PACKING MATERIALS			ACCESSORIES & PACKING MATERIALS
			**********			**********
		1-558-271-11	CORD, CONNECTION (AUDIO) (108cm)		1-551-734-11	CORD, CONNECTION (AUDIO 158cm)
		3-758-411-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, SWEDISH) (C545:CND, AEP, E/C745:CND, AEP)		3-758-411-61	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, SWEDISH) (C545:CND, AEP, E/C745:AEP)
		3-758-411-21	MANUAL, INSTRUCTION (ENGLISH) (C545:US, AUS/C745:US)		3-758-411-71	MANUAL, INSTRUCTION (ENGLISH) (C545:US, AUS/C745:US)
		3-758-411-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, PORTUGUESE) (C545:AEP/C745:AEP)		3-758-411-81	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, PORTUGUESE) (C545:AEP)
	*	4-965-971-01	CUSHION (FRONT)	*	4-965-249-01	CUSHION (FRONT)
	*	4-965-972-01	CUSHION (REAR)	*	4-965-250-01	CUSHION (REAR)
	*	4-966-433-01	INDIVIDUAL CARTON (C545)	*	4-975-946-01	INDIVIDUAL CARTON (C545:EXCEPT AEP)
	*	4-966-433-01	INDIVIDUAL CARTON (C545)	*	4-975-947-01	INDIVIDUAL CARTON (C545:AEP)
	*	4-966-434-01	INDIVIDUAL CARTON (C745)	*	4-975-949-01	INDIVIDUAL CARTON (C745)

4. Addition of the BU-5BD20 (Malaysia production of CDP-C545 only)

- **Difference of the CD Base unit**

As for productions which made in Malaysia, BU-5BD20 is used for CD base unit.
The boards, circuits and checking are different from BU-5BD10B which made in Japan.
Therefore, the productions which made in Malaysia are mentioned in this Service Manual Supplement-1.
Refer to the circuit, boartds, adjustments and parts list.

BU-5BD20 DIFFERENCE TABLE

Page	BU-5BD10B			BU-5BD20		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
43	107	1-765-265-11	WIRE (FLAT TYPE) (23 CORE)	107	1-776-172-11	WIRE (FLAT TYPE) (23 CORE)
44	⚠151	8-841-144-11	OPTICAL PICK-UP BLOCK KSS-240A	⚠151	8-848-376-01	OPTICAL PICK-UP BLOCK KSS-213B/S-N
	152	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	152	1-769-069-11	WIRE (FLAT TIPE) (16 CORE)
	* 157	A-4649-432-A	BD BOARD, COMPLETE	* 157	A-4673-510-A	BD BOARD, COMPLETE

- **Base Unit Change**

As the base unit BU-5BD10B has changed to BU-5BD20, IC501 of the MAIN BOARD has changed.
The interchangeability between IC501 and BD BOARD is as below:

		MAIN BOARD IC501	
		FORMER	NEW
		8-752-856-06 CXP84124-014Q	8-752-846-82 CXP82220-032Q
Base Unit Type	BU-5BD10B	○	○
	BU-5BD20	×	○

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

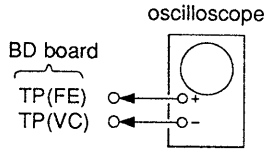
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

ELECTRICAL BLOCK CHECKING (for BU-5BD20)

Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

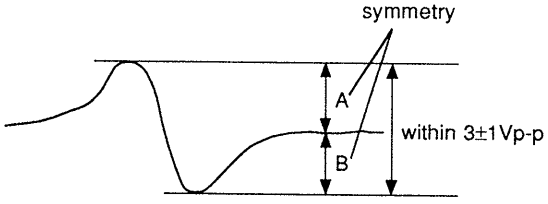
S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

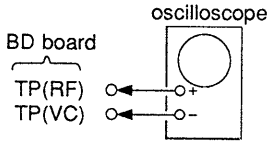
S-curve waveform



6. After check, remove the lead wire connected in step 2.

Note : • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



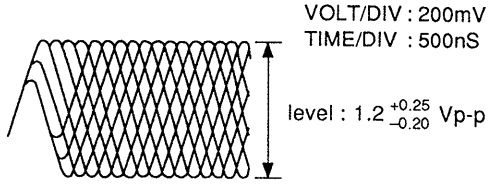
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in to play the number five track.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

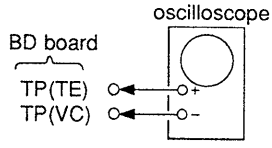
Note :

A clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RF signal waveform



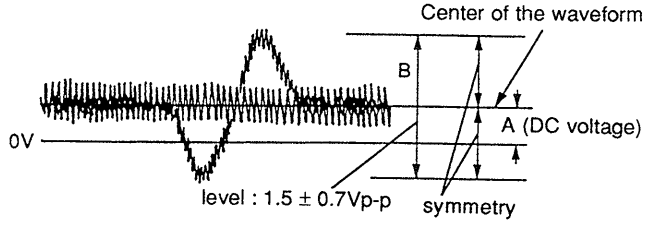
E-F Balance (1 Track Jump) Check



Procedure :

1. Connect oscilloscpe to test point TP (TE) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in to play the number five track.
4. Press the "II (pause)" button. (Becomes the 1 track jump mode)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
   A/B x 100 = less than ± 20%.

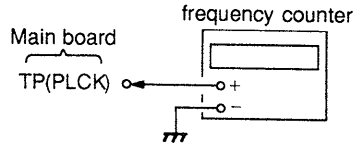
1 track jump waveform



RF PLL Free-run Frequency Check

Procedure :

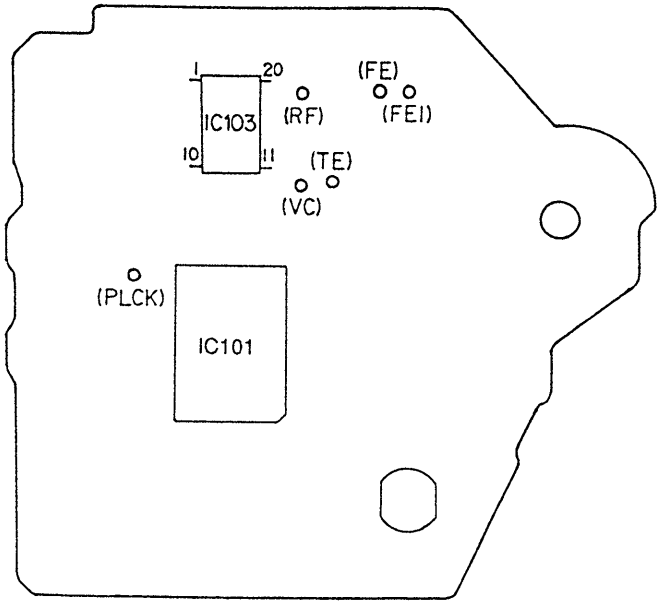
1. Connect frequency counter to test point (PLCK) with lead wire.



2. Turned Power switch on.
3. Put the disc (YEDS-18) in to play the number five track. Confirm that reading on frequency counter is 4.3218MHz.

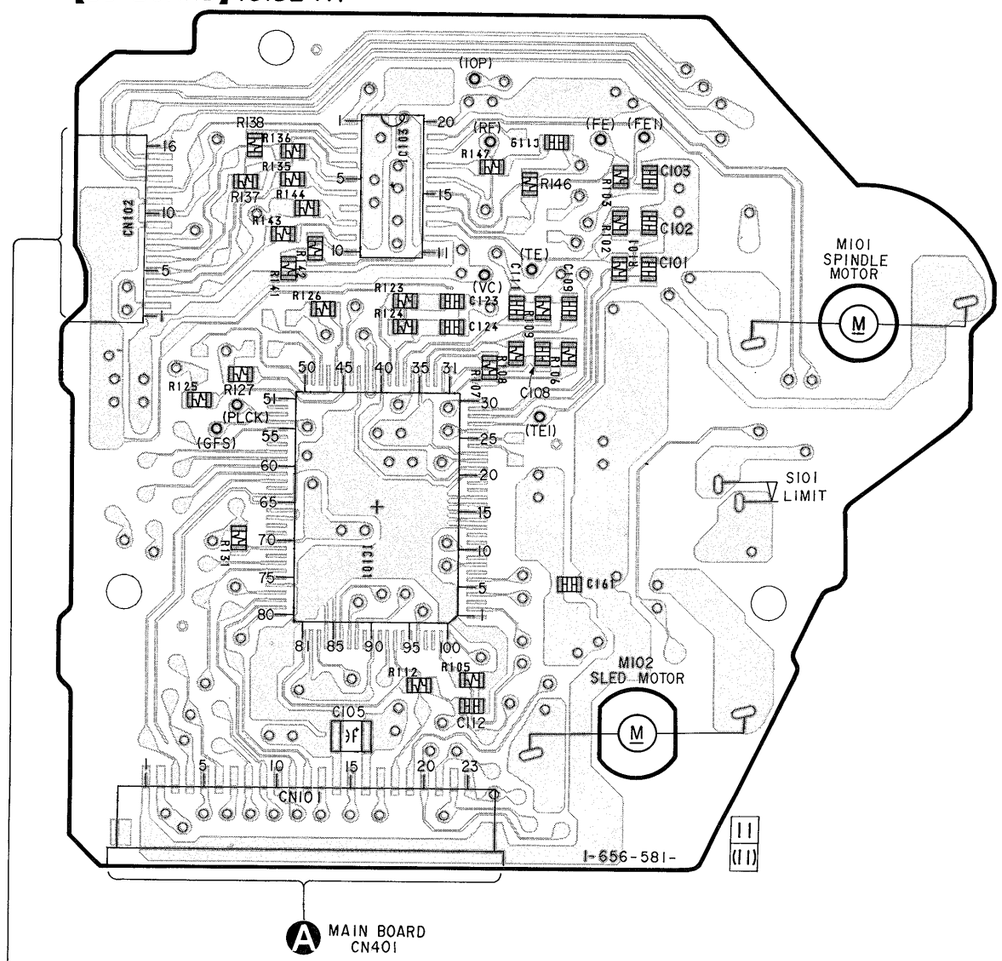
Adjustment Location :

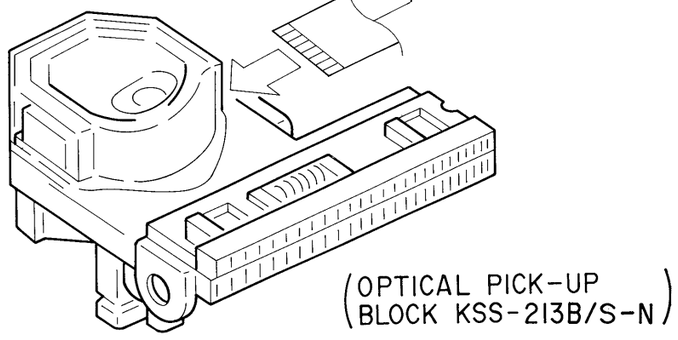
[BD BOARD] — SIDE A —



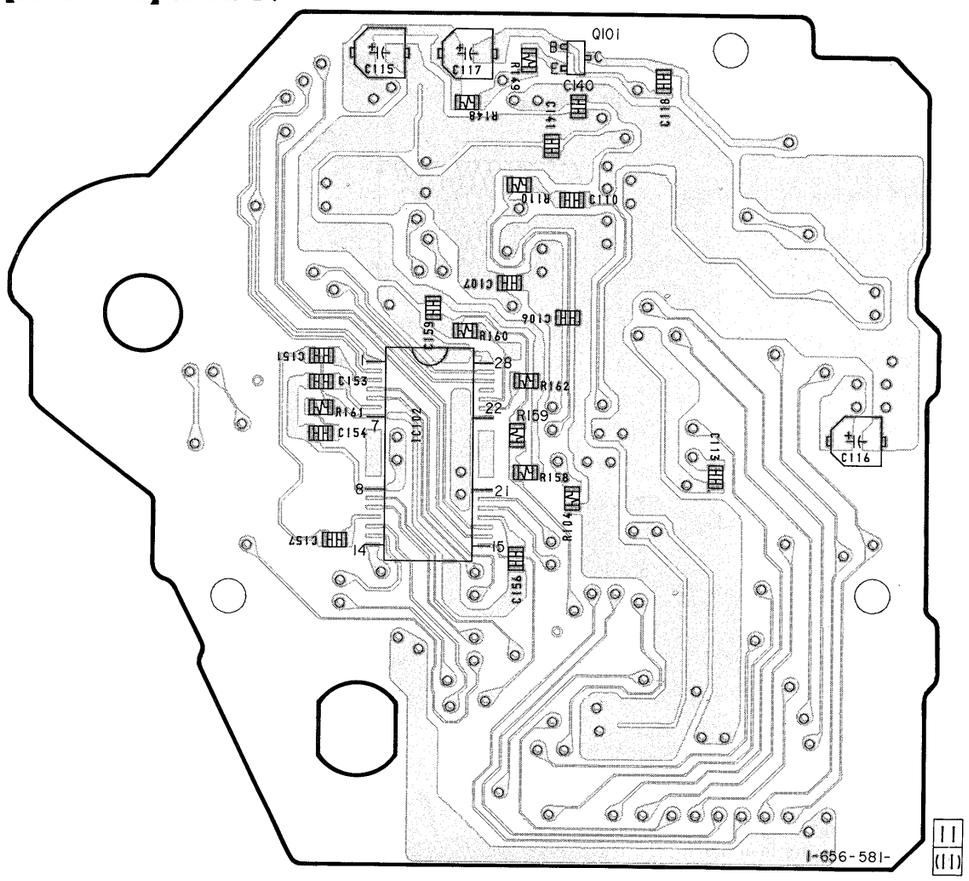
PRINTED WIRING BOARD — BD SECTION —

【BD BOARD】(SIDE A)





【BD BOARD】(SIDE B)

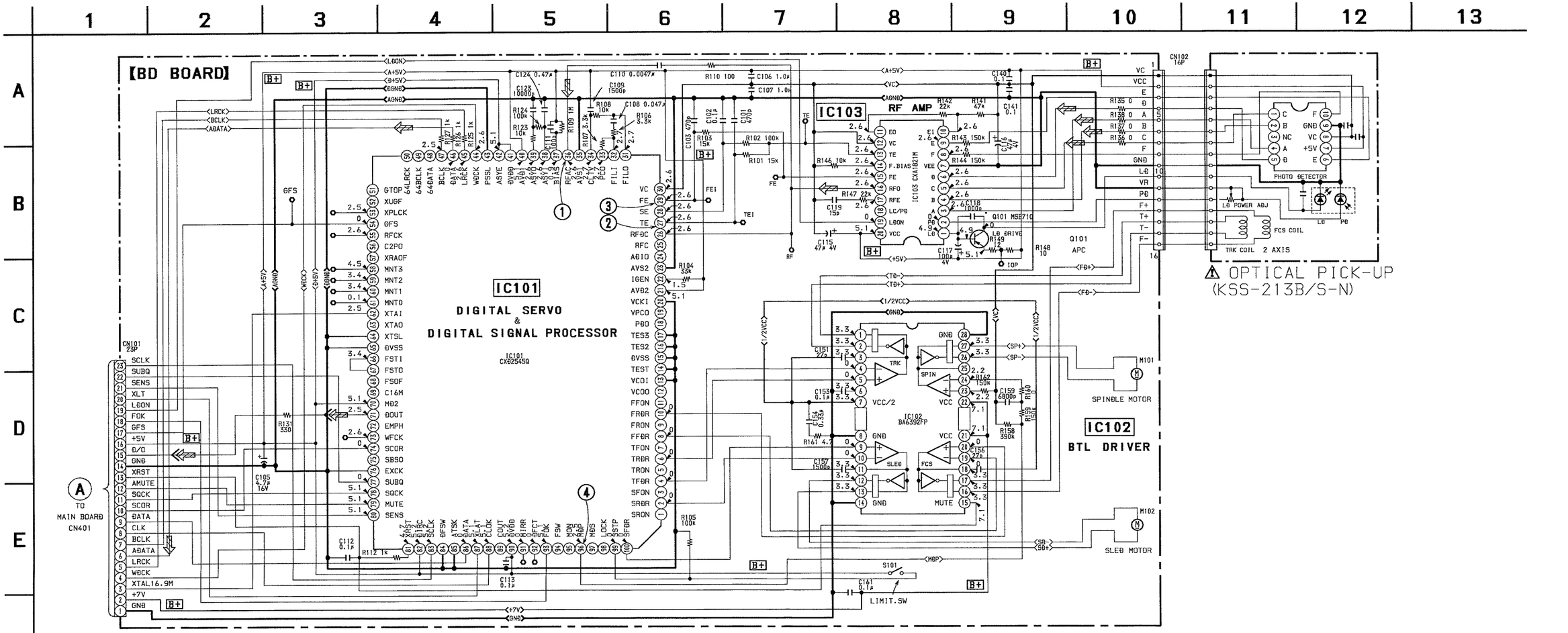


- **Semiconductor Location**

Ref. No.	Location
IC101	C-2
IC102	C-7
IC103	B-2
Q101	A-8

Note:

- ○——: parts extracted from the components side.
- ——: parts extracted from the conductor side.
- ○: Through hole.
- ▭: Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)



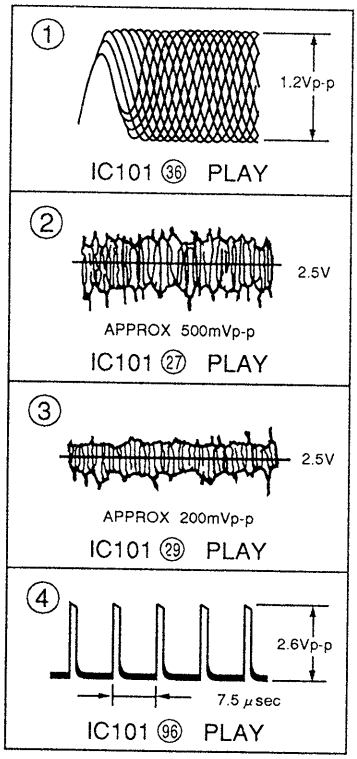
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

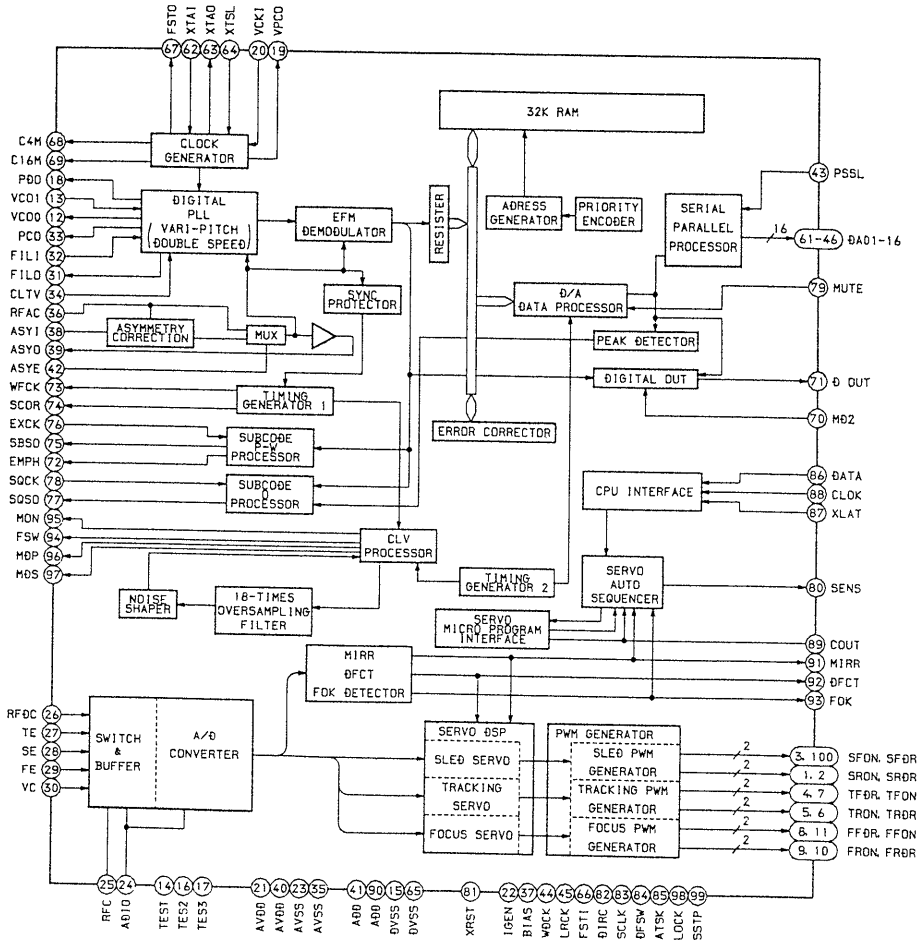
- B+ :B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ :CD
  ⇨ :digital out

● Waveformes

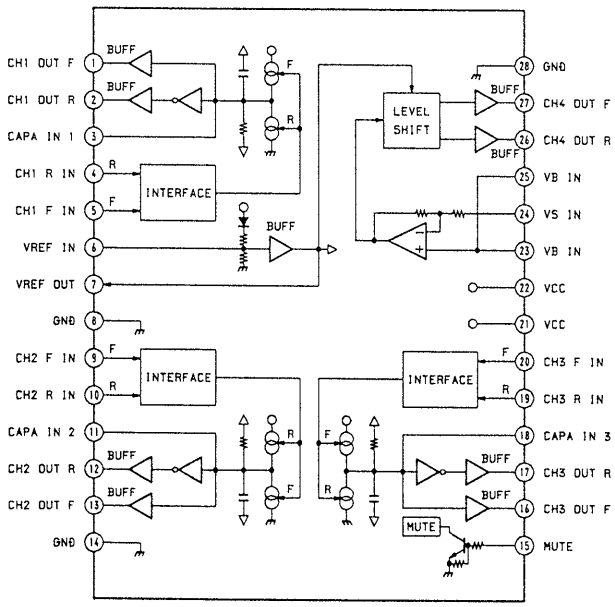


• IC Block Diagrams

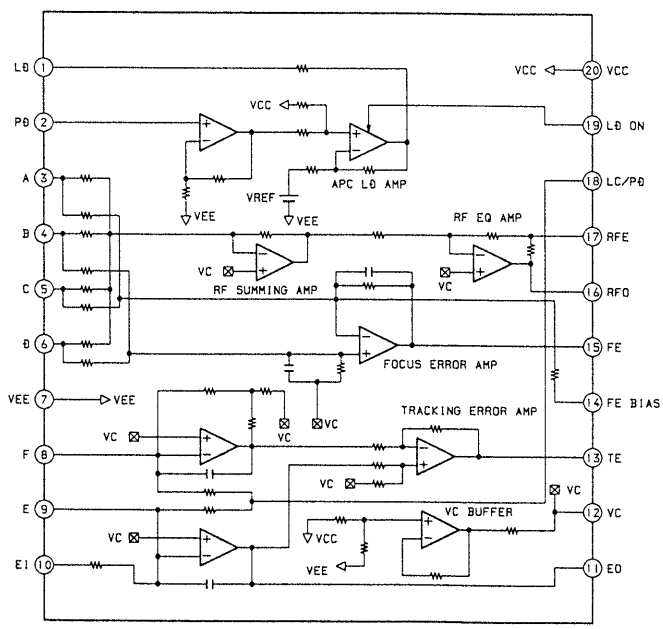
IC101 CXD2545Q



IC102 BA6392FP



IC103 CXA1821M



IC PIN FUNCTION

- **IC101 (CXD2545Q)**

Pin No.	Pin Name	I/O	Function
1	SRON	O	Sled drive output (Not used)
2	SRDR	O	Sled drive output
3	SFON	O	Sled drive output (Not used)
4	TFDR	O	Tracking drive output
5	TRON	O	Tracking drive output (Not used)
6	TRDR	O	Tracking drive output
7	TFON	O	Tracking drive output (Not used)
8	FFDR	O	Focus drive output
9	FRON	O	Focus drive output (Not used)
10	FRDR	O	Focus drive output
11	FFON	O	Focus drive output (Not used)
12	VCOO	O	VCO output for analog EFM PLL (Not used)
13	VCOI	I	VCO output for analog EFM PLL (GND)
14	TEST	I	TEST pin connected normally to GND
15	DVss	–	Digital GND
16	TES2	I	TEST pin connected normally to GND
17	TES3	I	TEST pin connected normally to GND
18	PDO	O	Charge-pump output for analog EFM PLL (Not used)
19	VPCO	O	Charge-pump output for variable pitch PLL (Not used)
20	VCKI	I	Clock input from variable pitch external VCO (GND)
21	AVD2	–	Analog power supply
22	IGEN	I	Power supply pin for operational amplifiers
23	AVS2	–	Analog GND
24	ADIO	I	(Not used)
25	RFC	O	(Not used)
26	RFDC	I	RF signal input
27	TE	I	Tracking error signal input
28	SE	I	Sled error signal input
29	FE	I	Focus error signal input
30	VC	I	Center voltage input pin
31	FILO	O	Filter output for master PLL
32	FILI	I	Filter input for master PLL
33	PCO	O	Charge-pump output for master PLL
34	CLTV	I	Control voltage input for master VCO
35	AVS1	–	Analog GND
36	RFAC	I	EFM signal input
37	BIAS	I	Asymmetry circuit constant current input
38	ASYI	I	Asymmetry comparate voltage input
39	ASYO	O	EFM full swing output
40	AVD1	–	Analog power supply

Pin No.	Pin Name	I/O	Function
41	DV_{DD}	–	Digital power supply
42	ASYE	I	Asymmetry circuit ON/OFF
43	PSSL	I	Audio data output mode selection input (GND)
44	WDCK	O	48-bit slot D/A interface. Word clock (Not used)
45	LRCK	O	48-bit slot D/A interface. LR clock
46	DATA	O	DA 16 output when PSSL=1. 48-bit slot serial data when PSSL=0
47	BCLK	O	DA 15 output when PSSL=1. 48-bit slot data when PSSL=0
48	64DATA	O	DA 14 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used)
49	64BCLK	O	DA 13 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used)
50	64LRCK	O	DA 12 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used)
51	GTOP	O	DA 11 output when PSSL=1. GTOP output when PSSL=0 (Not used)
52	XUGF	O	DA 10 output when PSSL=1. XUGF output when PSSL=0 (Not used)
53	XPLCK	O	DA 09 output when PSSL=1. XPLCK output when PSSL=0
54	GFS	O	DA 08 output when PSSL=1. GFS output when PSSL=0
55	RFCK	O	DA 07 output when PSSL=1. RFCK output when PSSL=0
56	C2PO	O	DA 06 output when PSSL=1. C2PO output when PSSL=0 (Not used)
57	XRAOF	O	DA 05 output when PSSL=1. XRA0F output when PSSL=0 (Not used)
58	MNT3	O	DA 04 output when PSSL=1. MNT3 output when PSSL=0
59	MNT2	O	DA 03 output when PSSL=1. MNT2 output when PSSL=0
60	MNT1	O	DA 02 output when PSSL=1. MNT1 output when PSSL=0
61	MNT0	O	DA 01 output when PSSL=1. MNT0 output when PSSL=0
62	XTAI	I	X'tal oscillator circuit input
63	XTAO	O	X'tal oscillator circuit output (Not used)
64	XTSL	I	X'tal selection input pin (GND)
65	DVss	–	Digital GND
66	FSTI	I	2/3 divider output of pins 62, 63
67	FSTO	O	2/3 divider output of pins 62, 63
68	FSOF	O	(Not used)
69	C16M	O	16.9344 MHz output (Not used)
70	MD2	I	Digital-out ON/OFF control pin (+5V)
71	DOUT	O	Digital-out output pin
72	EMPH	O	Playback disc output in emphasis mode (Not used)
73	WFCK	O	WFCK output
74	SCOR	O	Sub-code sync output
75	SBSO	O	Sub-P through Sub-W serial output (Not used)
76	EXCK	I	Clock input for SBS0 read-out (+5V)
77	SUBQ	O	Sub-Q 80-bit output
78	SQCK	I	Clock input for SQS0 read-out
79	MUTE	I	Muting selection pin
80	SENS	O	SENS output
81	XRST	I	System reset
82	DIRC	I	Used in 1-track jump mode (+5V)
83	SCLK	I	SENS serial data read-out clock
84	DFSW	I	DFCT selection pin (GND)
85	ATSK	I	Input pin for anti-shock (GND)

Pin No.	Pin Name	I/O	Function
86	DATA	I	Serial data input, supplied from CPU
87	XLAT	I	Latch input, supplied from CPU
88	CLOK	I	Serial data transfer clock input, supplied from CPU
89	COUT	O	Numbers of track counted signal output (Not used)
90	DV_{DD}	–	Digital power supply
91	MIRR	O	Mirror signal output
92	DFCT	O	Defect signal output
93	FOK	O	Focus OK output
94	FSW	O	Output to select spindle motor output filter (Not used)
95	MON	O	Output to control ON/OFF of spindle motor (Not used)
96	MDP	O	Output to control spindle motor servo
97	MDS	O	Output to control spindle motor servo (Not used)
98	LOCK	O	GFS is sampled by 460 Hz. H when GFS is H (Not used)
99	SSTP	I	Input signal to detect disc inner most track
100	SFDR	O	Sled drive output

ELECTRICAL PARTS LIST

BD

NOTE:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref.No.	Part No.	Description			Remark
*	A-4673-510-A	BD BOARD, COMPLETE (C545)			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C105	1-135-155-21	TANTALUM CHIP	4.7uF	10%	16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT	100uF	20%	4V
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C119	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C123	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C124	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C140	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C151	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C153	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C154	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C156	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C157	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C161	1-163-038-91	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-770-072-11	CONNECTOR (FFC) 23P			
CN102	1-770-014-11	CONNECTOR, FFC/FPC 16P			
		< IC >			
IC101	8-752-369-78	IC CXD2545Q			
IC102	8-759-176-09	IC BA6392FP			
IC103	8-752-072-45	IC CXA1821M-T6			

Ref.No.	Part No.	Description			Remark
		< MOTOR >			
M101	X-4917-504-1	MOTOR ASSY (SLED)			
M102	X-4917-523-4	BASE (OUTSERT) ASSY (SPINDLE MOTOR)			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
		< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5%	1/10W
R102	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R103	1-216-077-00	METAL CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R110	1-216-025-91	METAL GLAZE	100	5%	1/10W
R112	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R125	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R126	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R127	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R131	1-216-037-00	METAL CHIP	330	5%	1/10W
R135	1-216-295-91	CONDUCTOR, CHIP (2012)			
R136	1-216-295-91	CONDUCTOR, CHIP (2012)			
R137	1-216-295-91	CONDUCTOR, CHIP (2012)			
R138	1-216-295-91	CONDUCTOR, CHIP (2012)			
R141	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R142	1-216-081-00	METAL CHIP	22K	5%	1/10W
R143	1-216-101-00	METAL CHIP	150K	5%	1/10W
R144	1-216-101-00	METAL CHIP	150K	5%	1/10W
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
R147	1-216-081-00	METAL CHIP	22K	5%	1/10W
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-003-11	METAL GLAZE	12	5%	1/10W
R158	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W
R160	1-216-295-91	CONDUCTOR, CHIP (2012)			
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W

BD

Ref. No.	Part No.	Description	Remark
R162	1-216-101-00	METAL CHIP 150K 5% 1/10W	
		< SWITCH >	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

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Home A&V Products Div.

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